

# TEST REPORT

**Application No.:** SHCR2112000976AT  
**FCC ID:** 2ADTD-MP1460  
**Applicant:** Hangzhou Hikvision Digital Technology Co., Ltd  
**Address of Applicant:** No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China  
**Manufacturer:** Hangzhou Hikvision Digital Technology Co., Ltd  
**Address of Manufacturer:** No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China  
**Factory:**  
 1.Hangzhou Hikvision Technology Co., Ltd.  
 2.Hangzhou Hikvision Electronics Co., Ltd.  
 3.Chongqing Hikvision technology Co., Ltd.  
**Address of Factory:**  
 1.No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052, China  
 2.No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 310052, China  
 3.No. 118, Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District, Chongqing, 401325, China

**Equipment Under Test (EUT):**

**EUT Name:** Mobile Wireless Component  
**Model No.:** DS-MP1460, DS-MP1460/GW, DS-MP1460/GW/WI, DS-MP1460/GW/WI58, DS-MP1460/GLF, DS-MP1460/GLF/WI, DS-MP1460/GLF/WI58, DS-MP1460/YY/ZZ, DS-MP1460UHK, DS-MP1460CKV, DS-MP1460UVS, DS-MP1460KVO, DS-MP1460HUN, DS-83152HM, DS-83152HM/GW, DS-83152HM/GW/WI, DS-83152HM/GLF, DS-83152HM/GLF/WI, DS-83152HM/YY/ZZ

**Add Model No.:** AE-MP1460, AE-MP1460/GLF/S, AE-MP1460/GLF/WI58/S, AE-MP1460/GLF/WI/S, AE-MP1460/WI58, AE-MP1460/WI

□ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

**Trade mark:** HIKVISION  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2021-12-10  
**Date of Test:** 2021-12-13 to 2022-01-25  
**Date of Issue:** 2022-05-10

<b>Test Result:</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.


*Parlam Zhan*

Parlam Zhan  
Laboratory Manager



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Revision Record			
Version	Description	Date	Remark
00	Update the EUT name and add the models with 4G module	2022-05-10	Base on SHEM190101016501

Authorized for issue by:			
			
		<hr/> <b>Micheal Niu / Project Engineer</b>	
			
		<hr/> <b>Parlam Zhan / Reviewer</b>	



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## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart E 15.407	KDB 789033 D02 II G	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass

### Declaration of EUT Family Grouping:

There are series models mentioned in this report, and they are the similar in electrical and electronic characters. The EUT using 3 wireless modules ( UC20 G & EC25 & SIM7600SA-H) had been certified and install in the main board as a plug in

The model DS-MP1460/GW; DS-MP1460/GW/WI; DS-MP1460/GW/WI58; DS-83152HM/GW; DS-83152HM/GW/WI; used the model of UC20: FCC ID: XMR201510UC20

The model DS-MP1460; DS-MP1460/GLF; DS-MP1460/GLF/WI; DS-MP1460/GLF/WI58; DS-MP1460/YY/ZZ; DS-MP1460UHK; DS-MP1460CKV; DS-MP1460UVS; DS-MP1460KVO; DS-MP1460HUN; DS-83152HM; used the model of EC25: FCC ID: XMR201805EC25AU

The Model AE-MP1460, AE-MP1460/GLF/S, AE-MP1460/GLF/WI58/S, AE-MP1460/GLF/WI/S, AE-MP1460/WI58, AE-MP1460/WI; used the model of SIM7600SA-H: FCC ID: 2AJYU-8PYA002

Remark: This report was an additional report copied from the report SHEM190101016501, new report add some models and a type of 4G module (model: SIM7600SA-H), just only retested item for Radiated Emissions and Radiated Emissions which fall in the restricted bands, the other test items were referred to original report no. SHEM190101016501.



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 5V
Test voltage:	DC 5V
Antenna Gain:	3dBi
Antenna Type:	Dipole Antenna

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Note Book	Acer	ZQT	NXM0QCN01031403EE876

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
2	Timeout	2s
3	Duty Cycle	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
8	RF Radiated Power	5.2dB (Below 1GHz)
		5.9dB (Above 1GHz)
9	Radiated Spurious Emission Test	4.2dB (Below 30MHz)
		4.5dB (30MHz-1GHz)
		5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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#### 4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888

Fax: +86 512 5737 0818

No tests were sub-contracted.

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED (CAB identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

- **VCCI (Member No.: 1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600,C-11707, T-11499, G-10216 respectively.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
<b>RF Radiated Test</b>						
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz~1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz~1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz~1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMV-v 3A1	N/A	N/A	N/A



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## 6 Radio Spectrum Matter Test Results

### 6.1 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

#### Limit:

For transmitters operating in the 5.15-5.25 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

For transmitters operating in the 5.25-5.35 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

For transmitters operating in the 5.47-5.725 GHz band:

All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.



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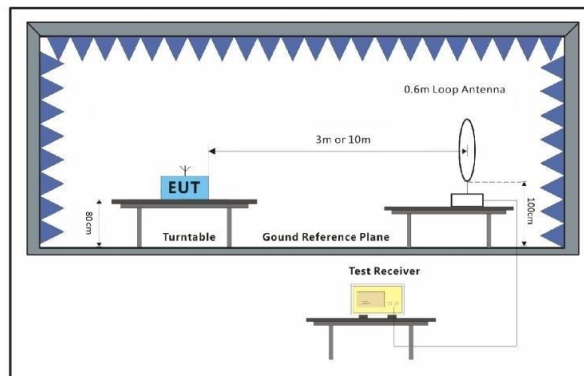
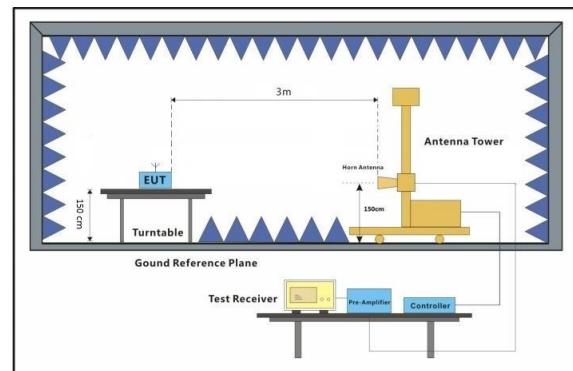
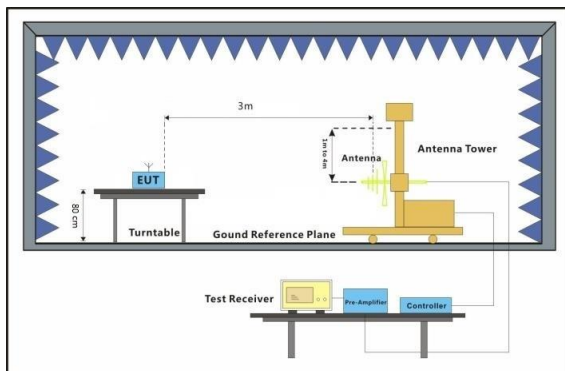
### 6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 6.1.2 Test Setup Diagram



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### 6.1.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
4. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a/n modulation and MIMO antenna operation for n modulation produced the worst emissions. So, the emissions produced from other operation are not recorded in report.

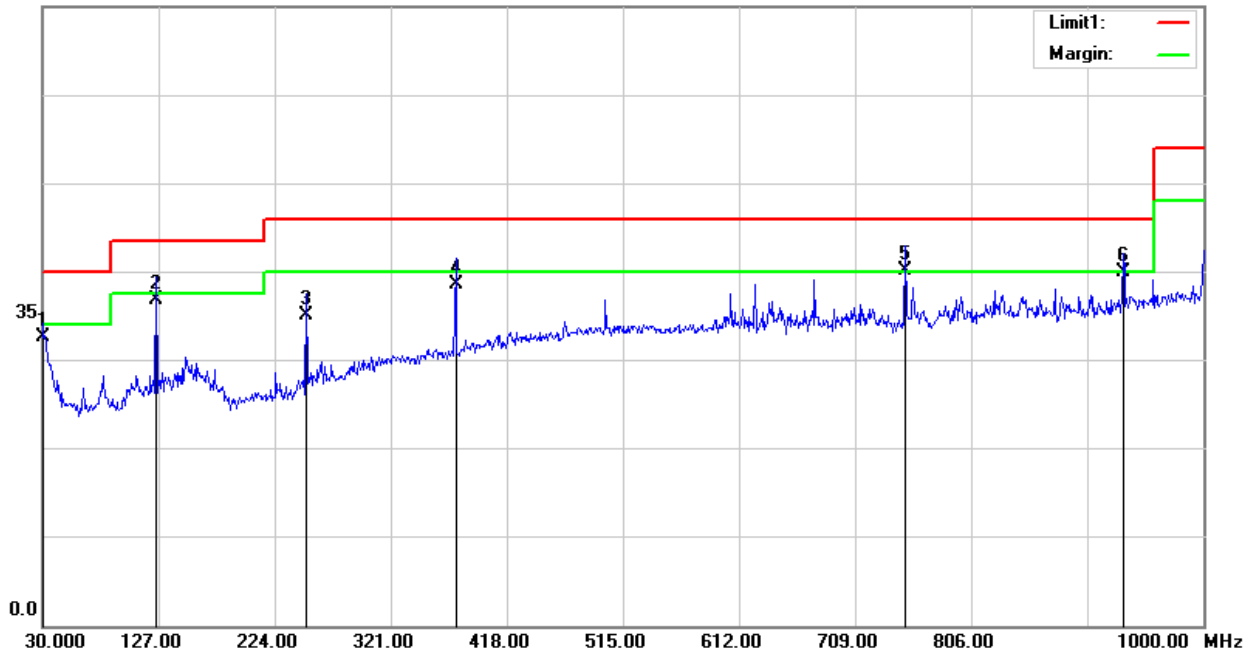


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30MHz-1GHz:

70.0 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	30.0000	6.70	25.93	32.63	40.00	-7.37	150	52	QP
2	125.0600	17.52	19.33	36.85	43.50	-6.65	100	251	QP
3	250.1900	15.82	19.32	35.14	46.00	-10.86	100	23	QP
4	375.3200	15.64	22.99	38.63	46.00	-7.37	150	163	QP
5	750.7100	12.73	27.48	40.21	46.00	-5.79	100	110	QP
6	933.0700	10.97	29.09	40.06	46.00	-5.94	100	15	QP



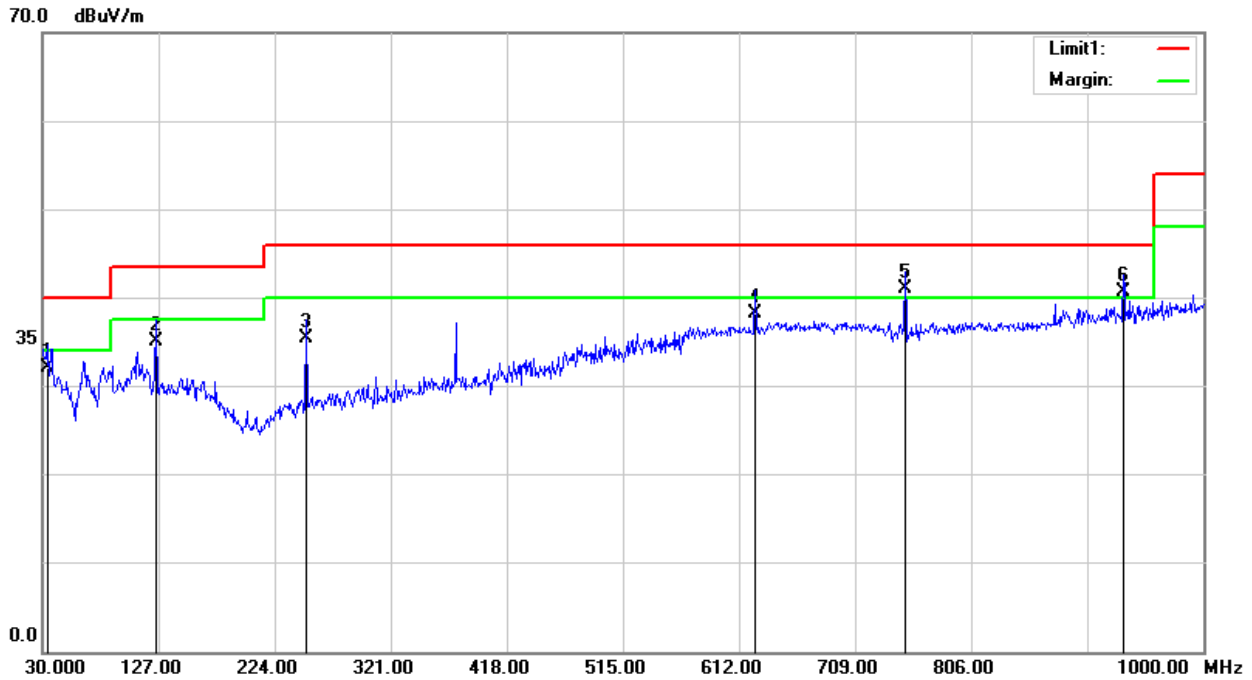
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(86-21) 61915666 f(86-21) 61915678 www.sgs.com.cn  
(86-21) 61915666 f(86-21) 61915678 e.sgs.china@sgs.com



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (deg.)	Remark
1	33.8800	8.44	23.72	32.16	40.00	-7.84	100	62	QP
2	125.0600	15.70	19.33	35.03	43.50	-8.47	100	32	QP
3	250.1900	16.16	19.32	35.48	46.00	-10.52	100	256	QP
4	625.5800	11.34	26.82	38.16	46.00	-7.84	100	10	QP
5	750.7100	13.48	27.48	40.96	46.00	-5.04	150	152	QP
6	933.0700	11.59	29.09	40.68	46.00	-5.32	100	110	QP

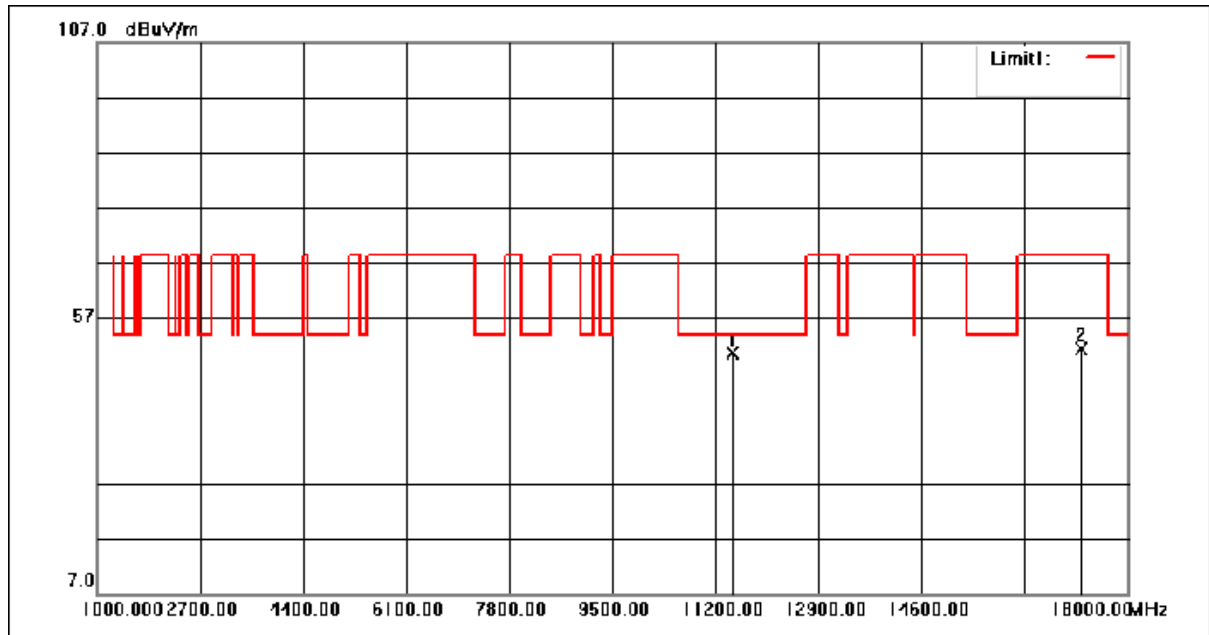


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Above 1GHz:

Mode:a; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



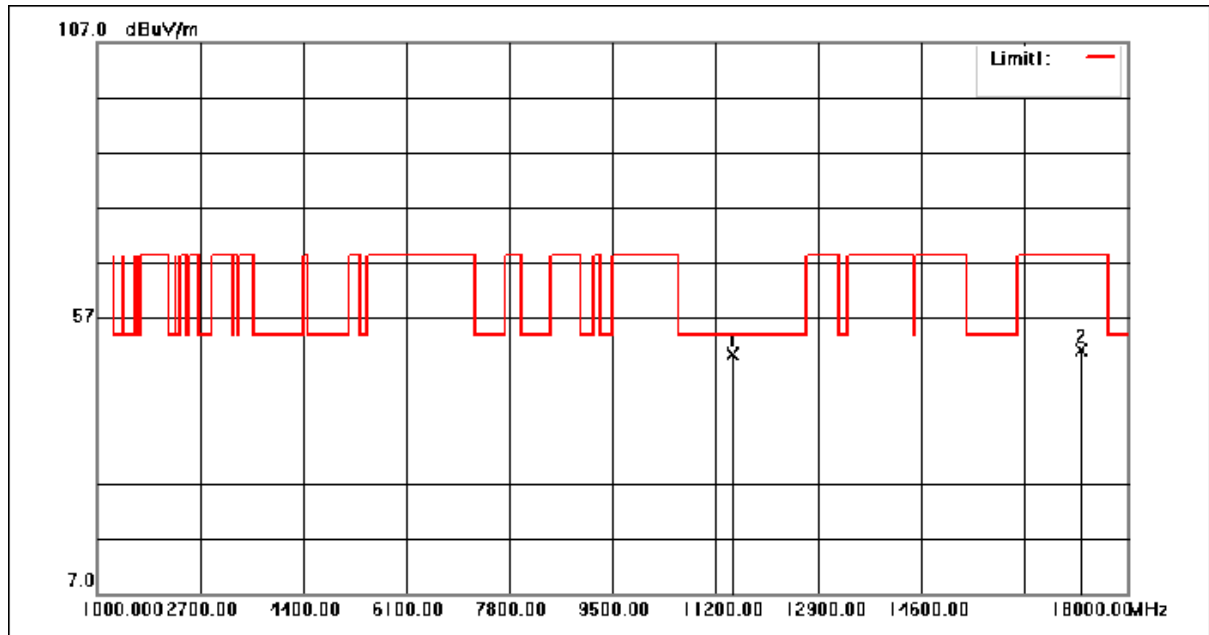
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.81	0.94	50.75	54.00	-3.25	peak
2	17235.000	42.31	9.05	51.36	68.30	-16.94	peak



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Mode:a; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



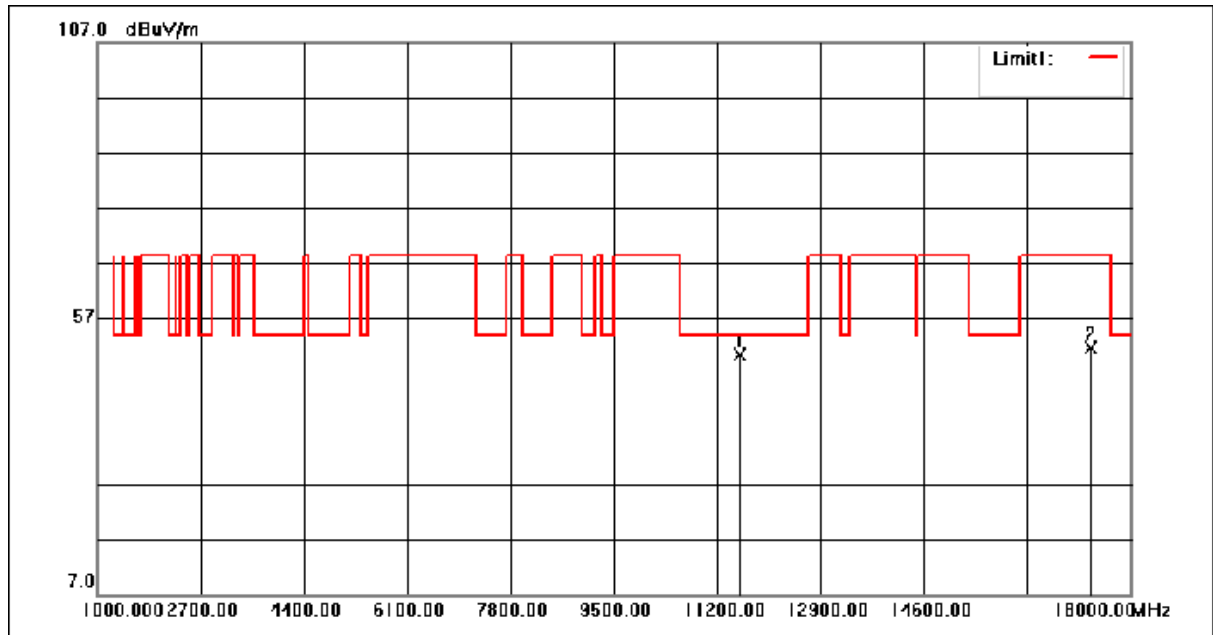
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.55	0.94	50.49	54.00	-3.51	peak
2	17235.000	42.03	9.05	51.08	68.30	-17.22	peak



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Mode:a; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



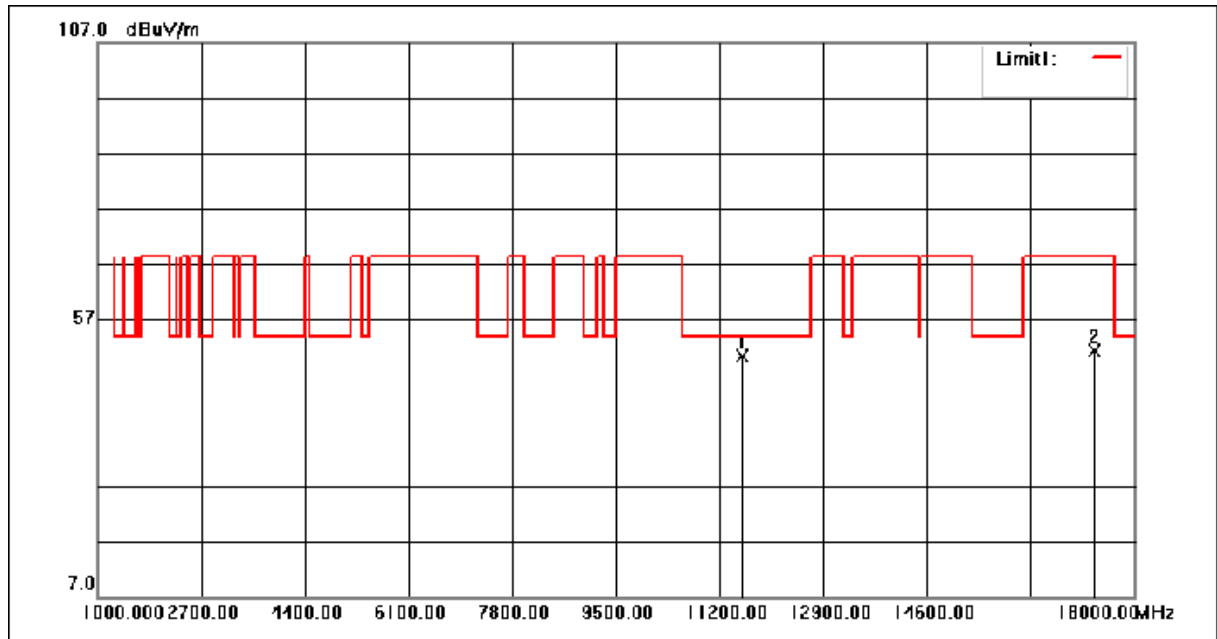
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.24	1.18	50.42	54.00	-3.58	peak
2	17355.000	42.70	8.98	51.68	68.30	-16.62	peak



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Mode:a; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.11	1.18	50.29	54.00	-3.71	peak
2	17355.000	42.47	8.98	51.45	68.30	-16.85	peak

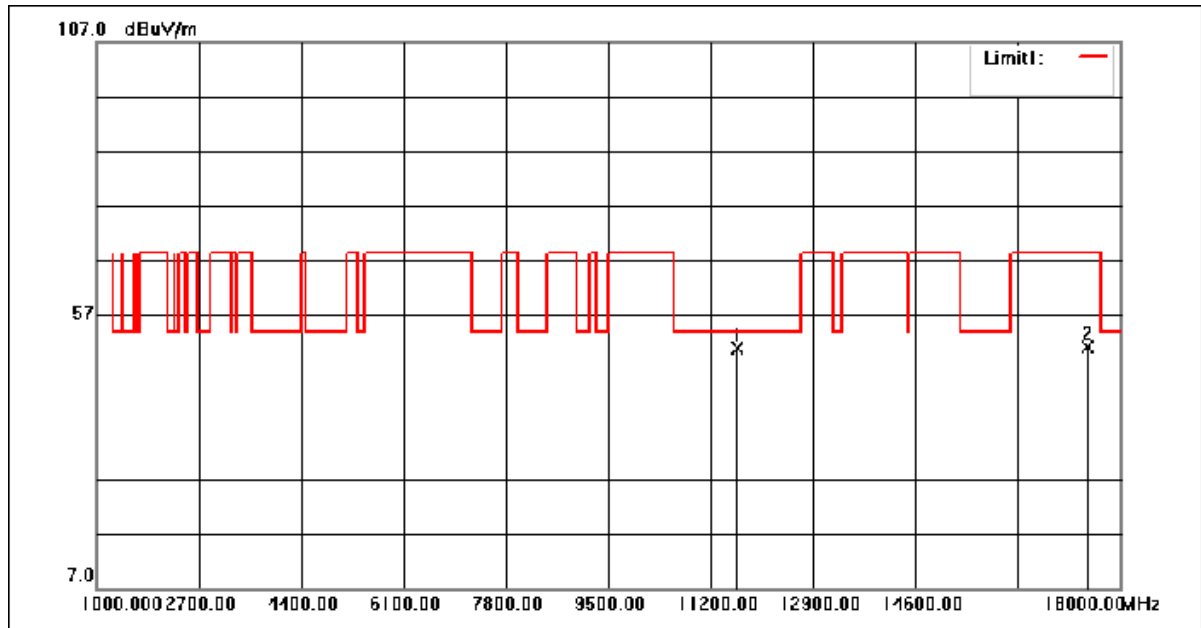


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Mode:a; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



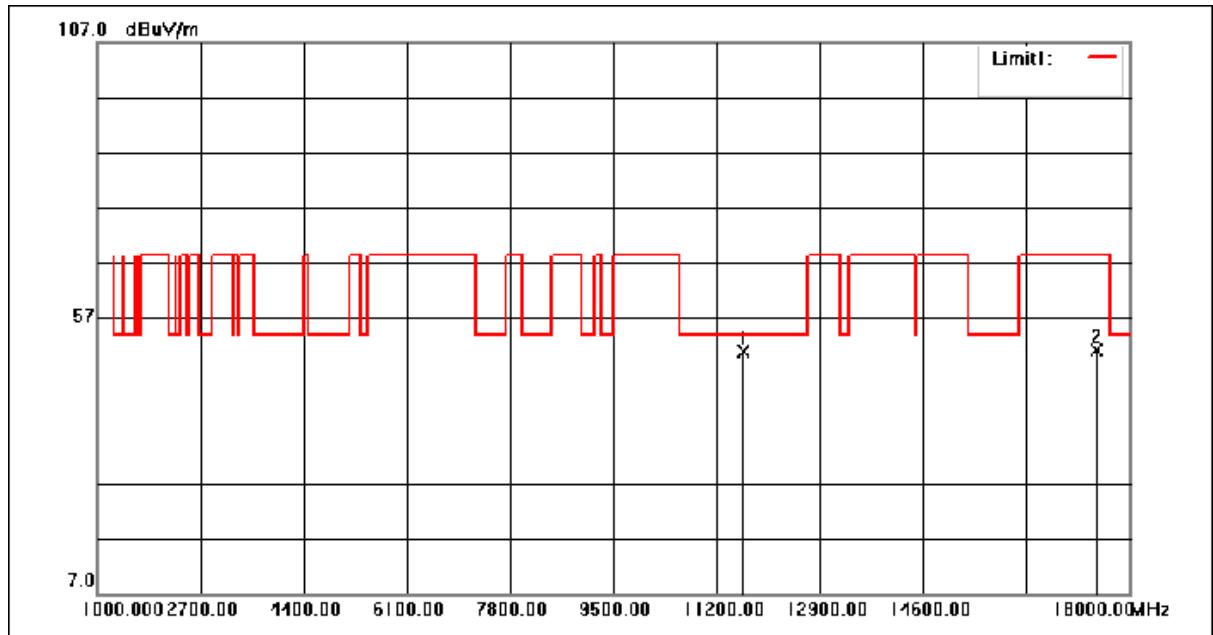
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.34	1.45	50.79	54.00	-3.21	peak
2	17475.000	42.34	8.90	51.24	68.30	-17.06	peak



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Mode:a; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



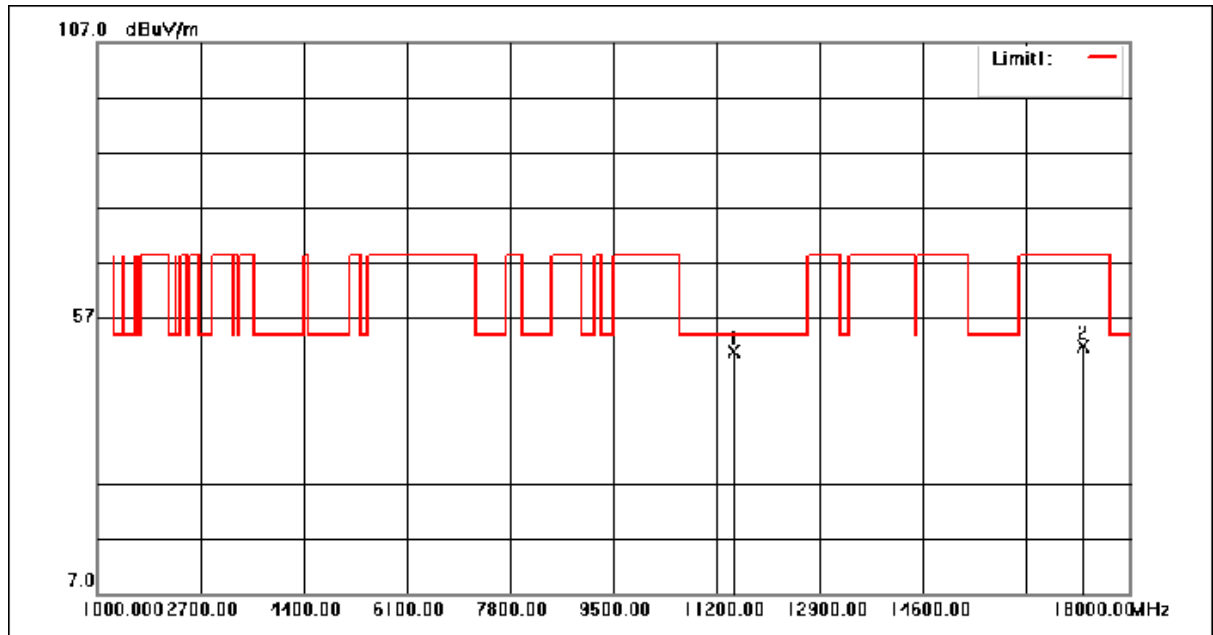
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.42	1.45	50.87	54.00	-3.13	peak
2	17475.000	42.27	8.90	51.17	68.30	-17.13	peak



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



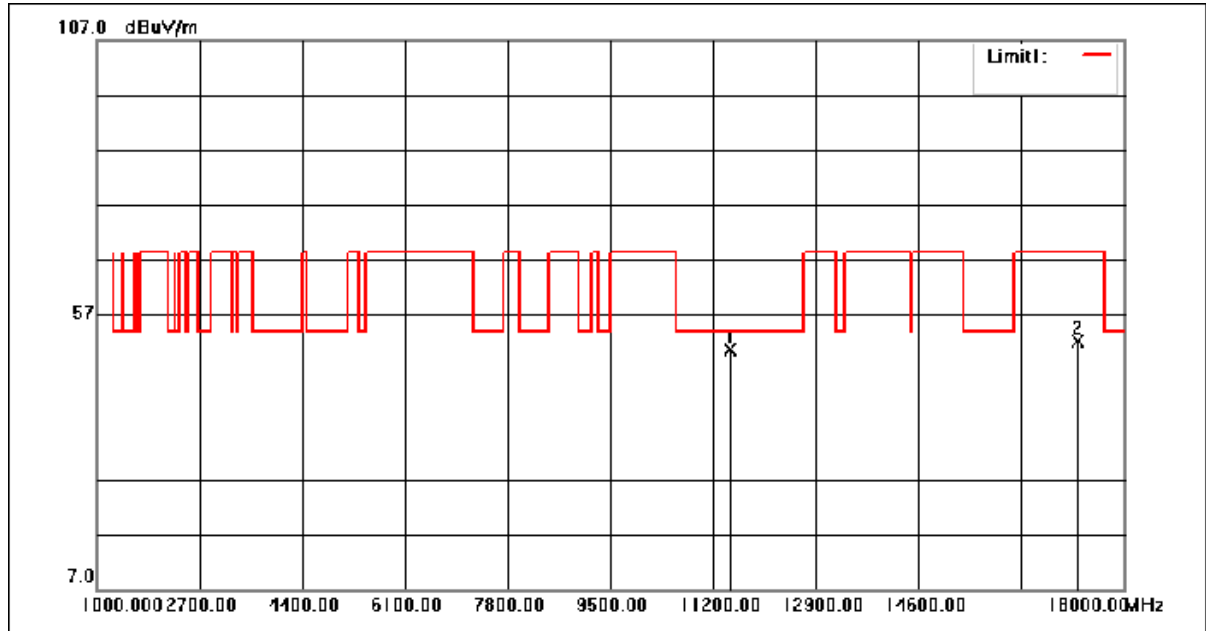
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.89	0.94	50.83	54.00	-3.17	peak
2	17235.000	42.92	9.05	51.97	68.30	-16.33	peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



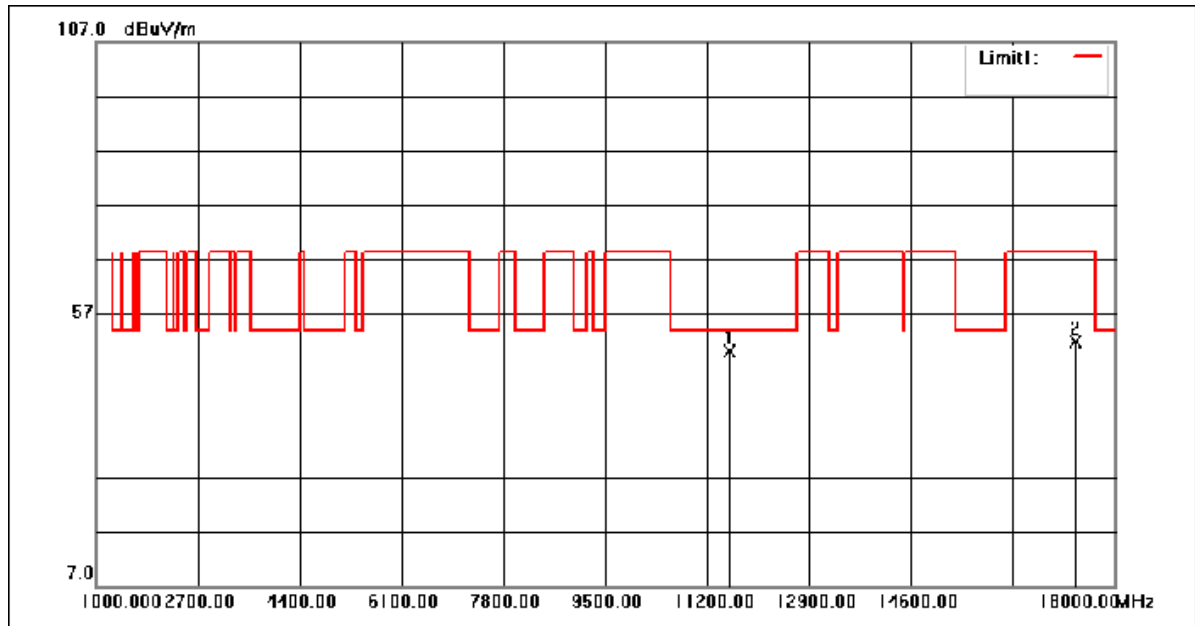
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.73	0.94	50.67	54.00	-3.33	peak
2	17235.000	43.18	9.05	52.23	68.30	-16.07	peak



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



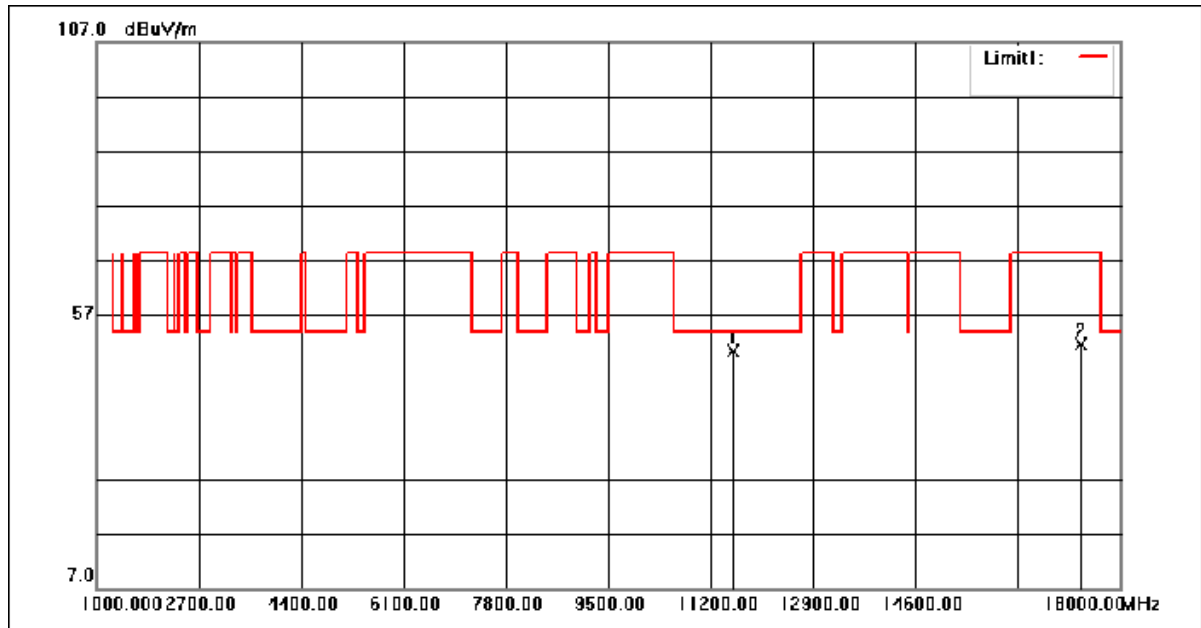
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.05	1.18	50.23	54.00	-3.77	peak
2	17355.000	43.00	8.98	51.98	68.30	-16.32	peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



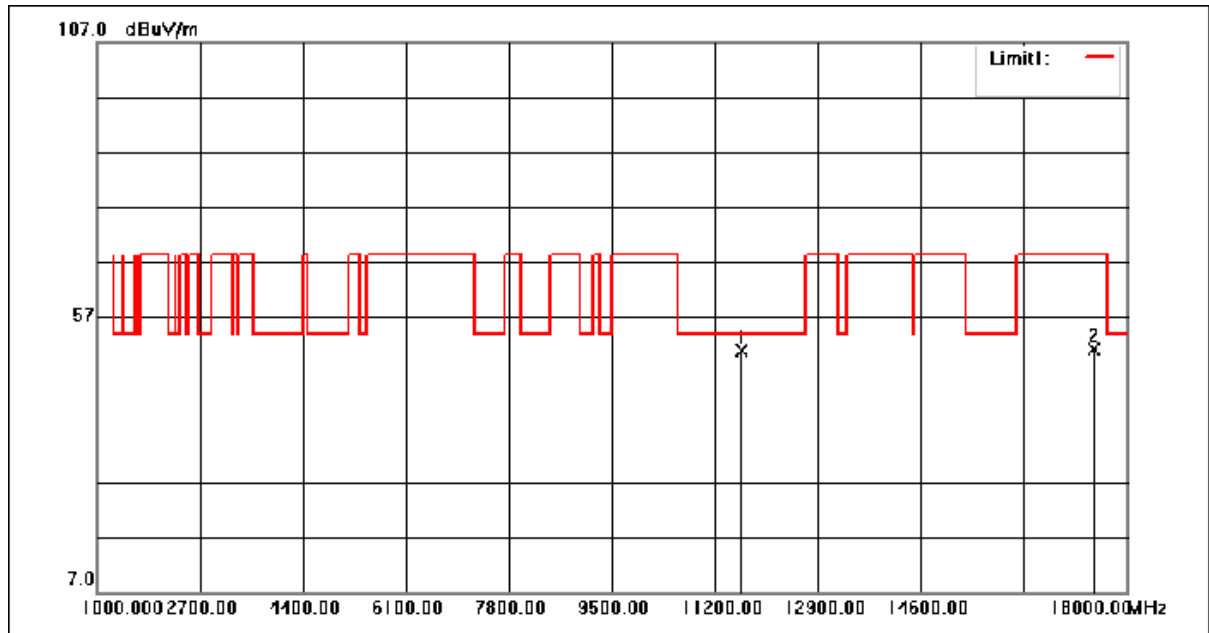
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.29	1.18	50.47	54.00	-3.53	peak
2	17355.000	42.58	8.98	51.56	68.30	-16.74	peak



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



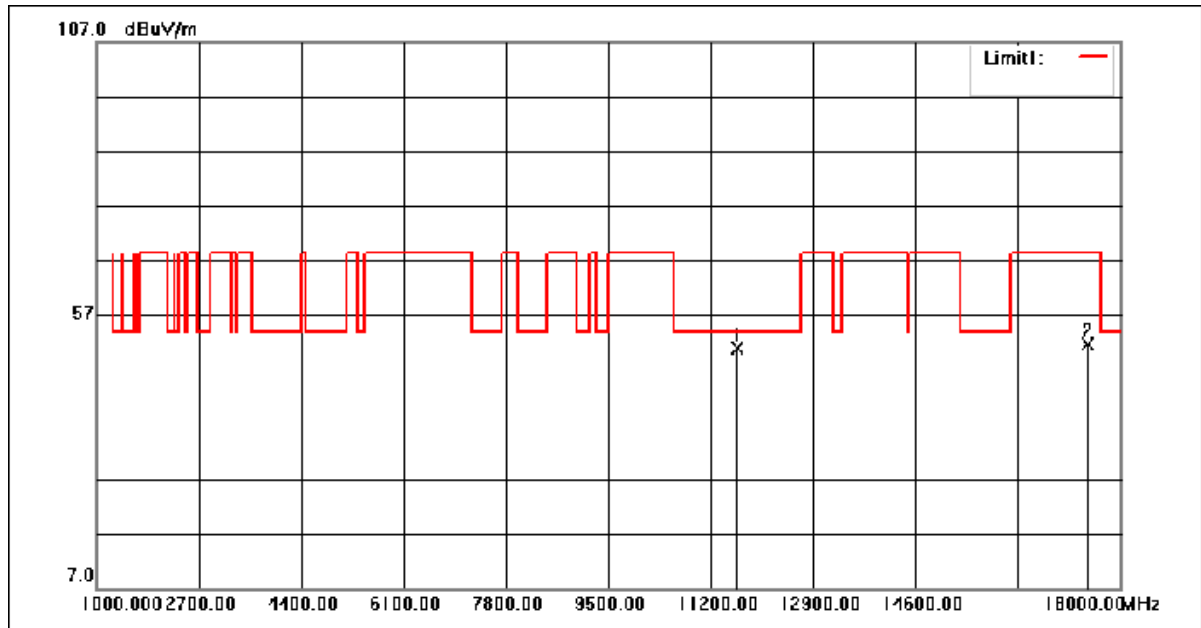
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.51	1.45	50.96	54.00	-3.04	peak
2	17475.000	42.25	8.90	51.15	68.30	-17.15	peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.39	1.45	50.84	54.00	-3.16	peak
2	17475.000	42.74	8.90	51.64	68.30	-16.66	peak

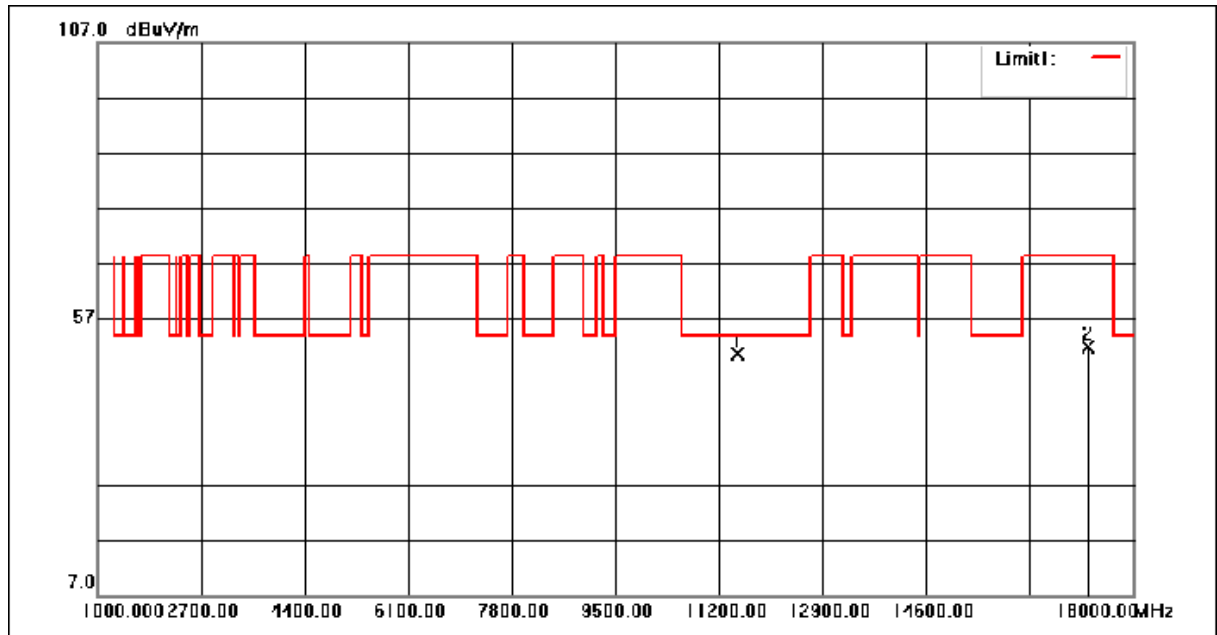


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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



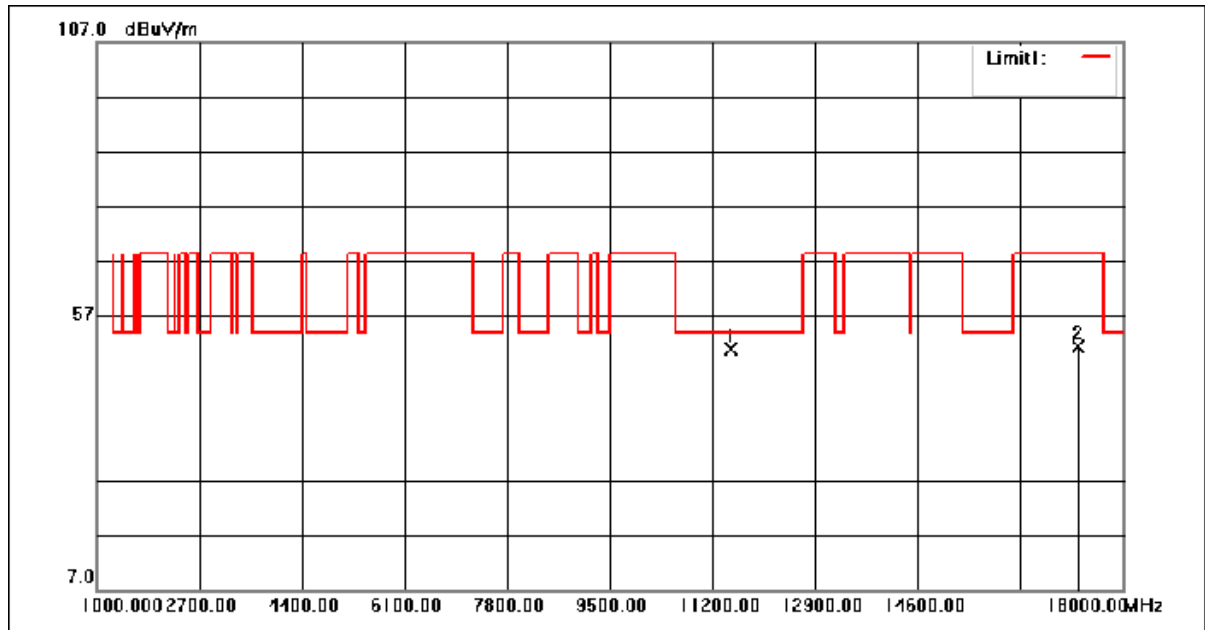
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.54	0.99	50.53	54.00	-3.47	peak
2	17265.000	42.75	9.03	51.78	68.30	-16.52	peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



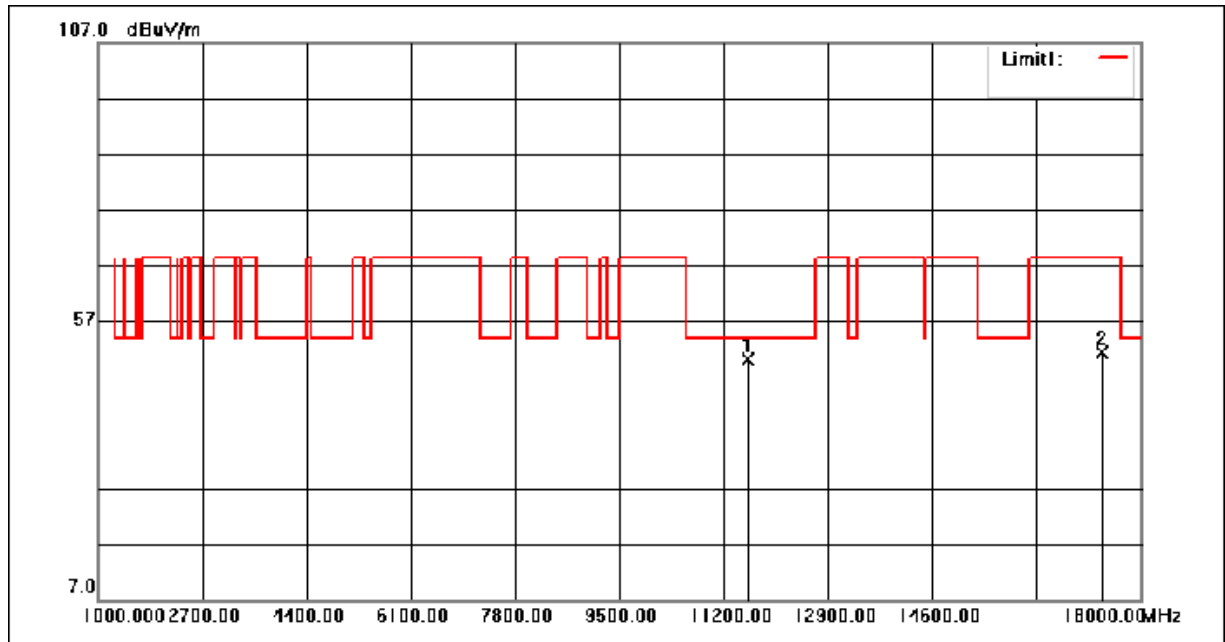
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.96	0.99	50.95	54.00	-3.05	peak
2	17265.000	42.43	9.03	51.46	68.30	-16.84	peak



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



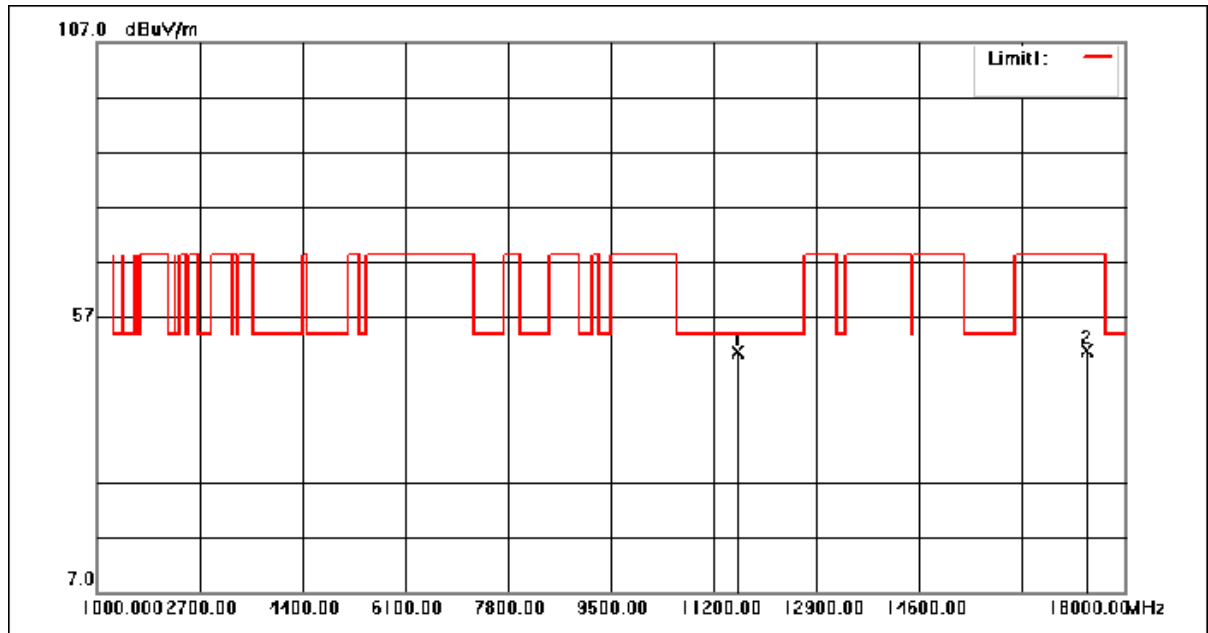
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.77	1.25	50.02	54.00	-3.98	peak
2	17385.000	42.47	8.96	51.43	68.30	-16.87	peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



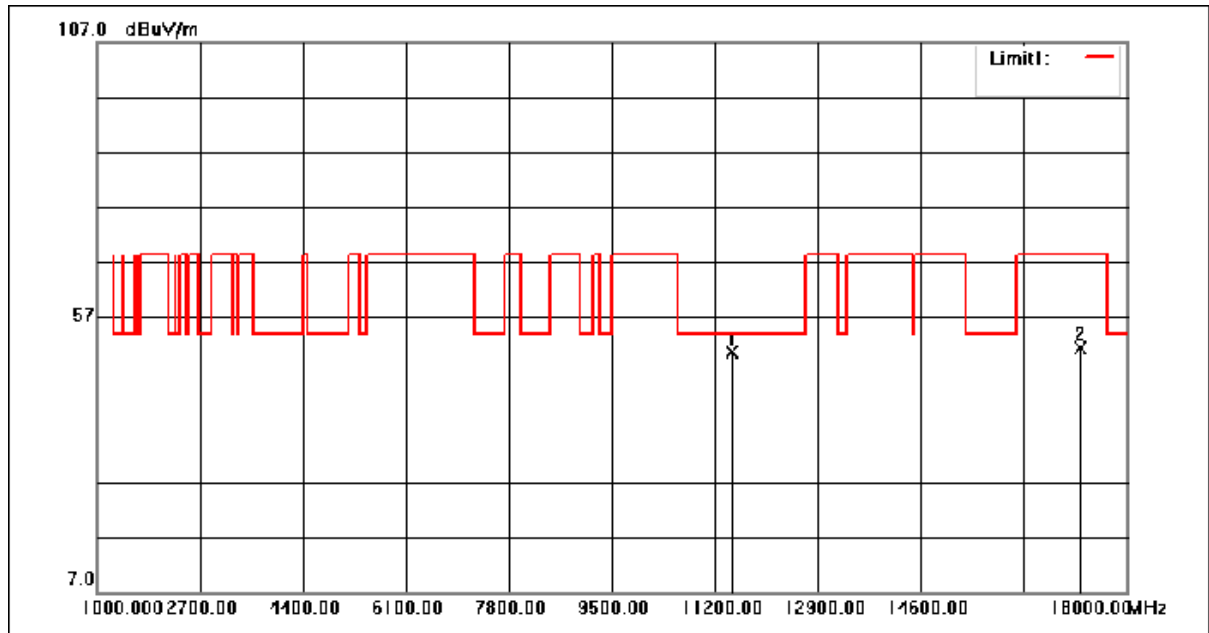
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.30	1.25	50.55	54.00	-3.45	peak
2	17385.000	42.04	8.96	51.00	68.30	-17.30	peak



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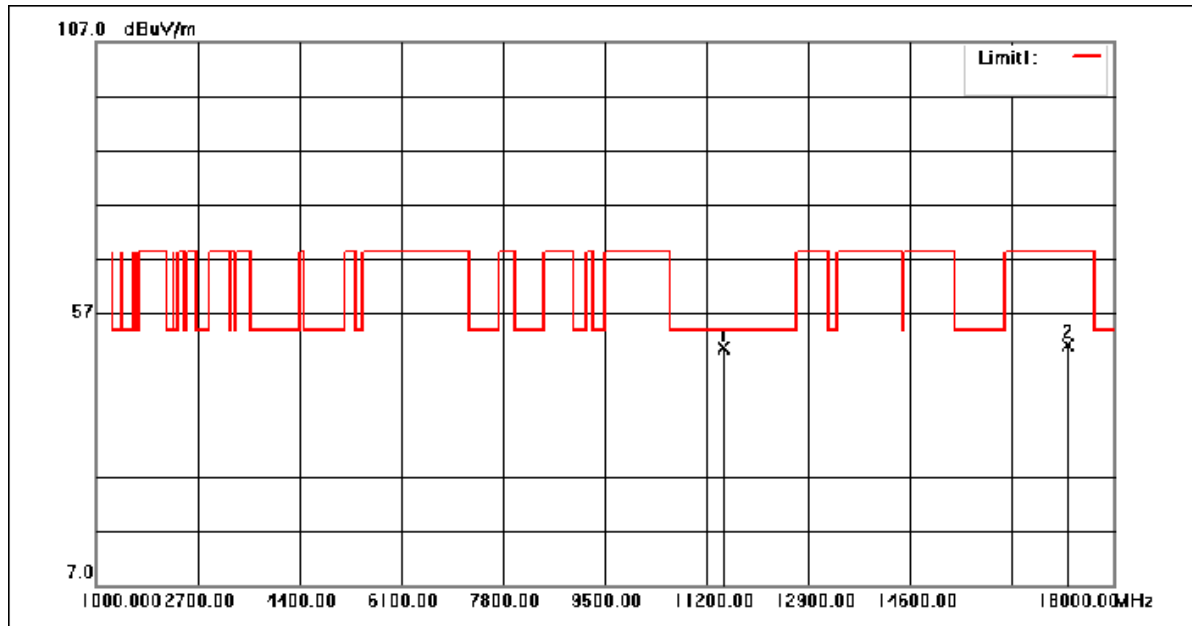
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.57	0.94	50.51	54.00	-3.49	peak
2	17235.000	42.33	9.05	51.38	68.30	-16.92	peak



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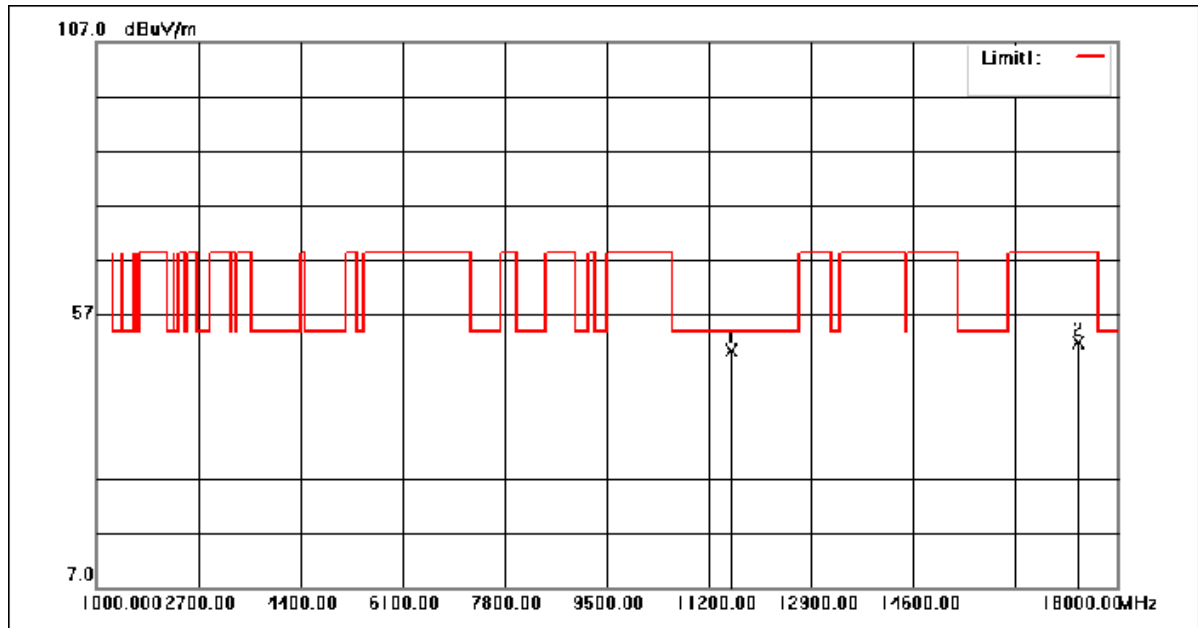
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11490.000	49.63	0.94	50.57	54.00	-3.43	peak
2	17235.000	42.08	9.05	51.13	68.30	-17.17	peak



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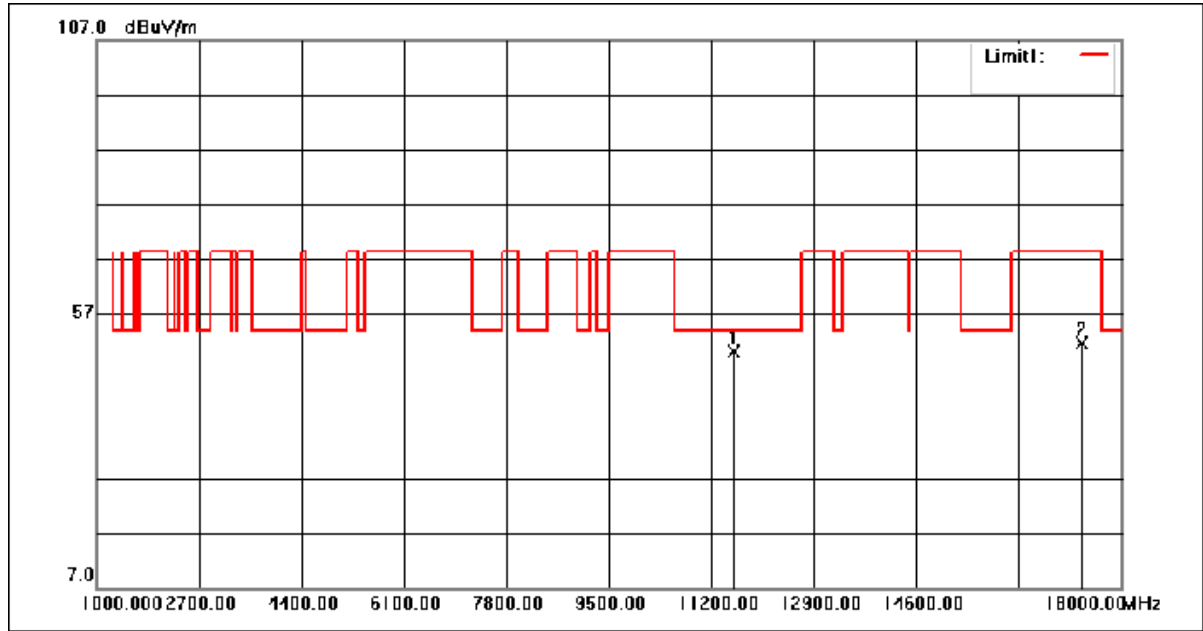
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.30	1.18	50.48	54.00	-3.52	peak
2	17355.000	42.87	8.98	51.85	68.30	-16.45	peak



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	48.98	1.18	50.16	54.00	-3.84	peak
2	17355.000	42.60	8.98	51.58	68.30	-16.72	peak

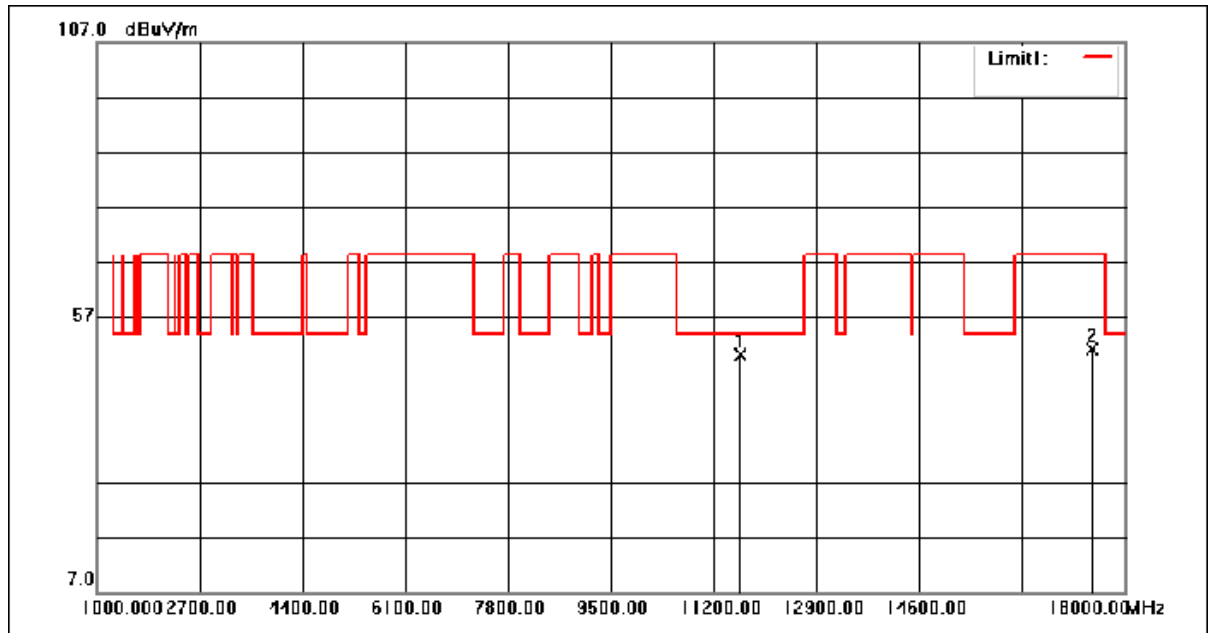


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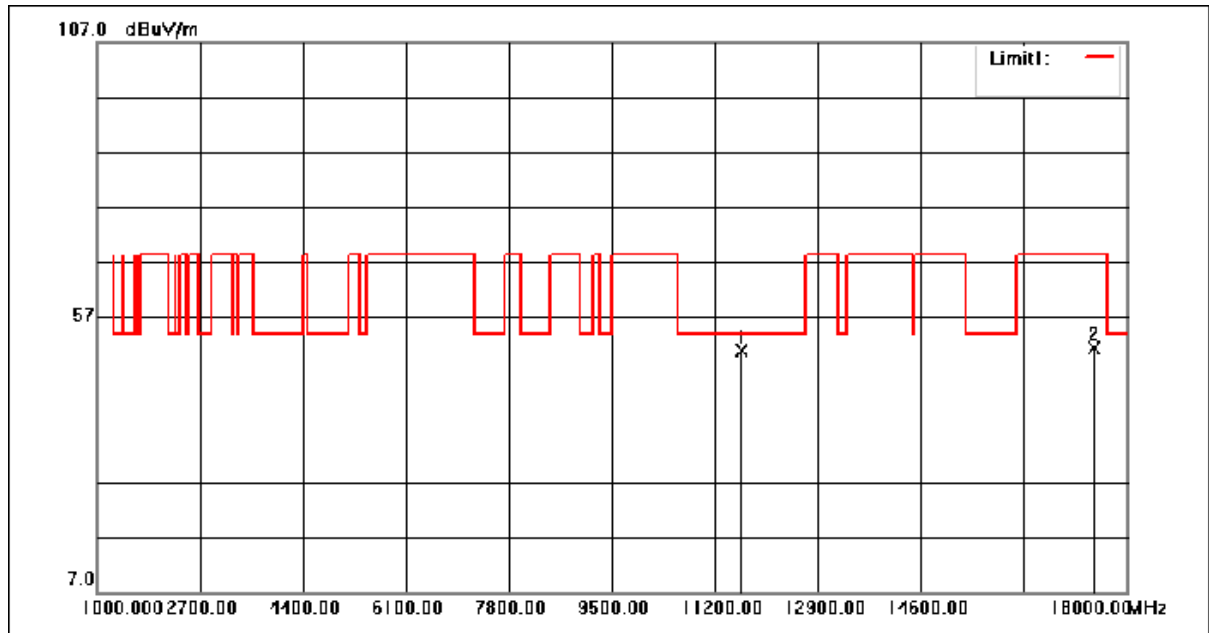
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	48.63	1.45	50.08	54.00	-3.92	peak
2	17475.000	42.21	8.90	51.11	68.30	-17.19	peak



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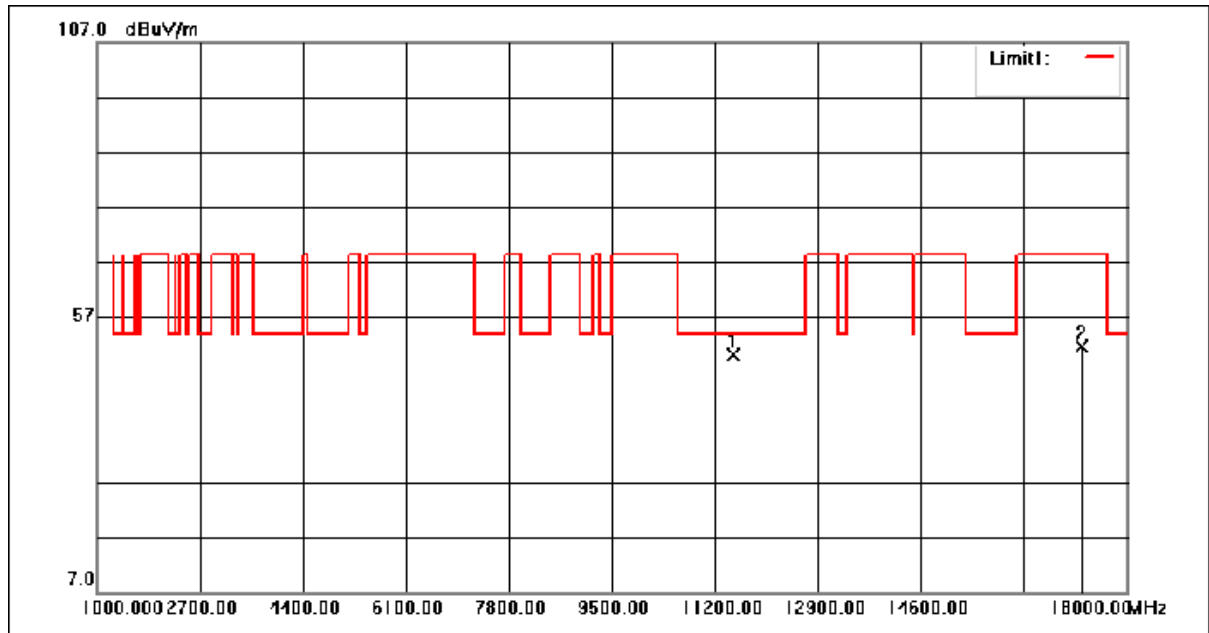
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.31	1.45	50.76	54.00	-3.24	peak
2	17475.000	42.36	8.90	51.26	68.30	-17.04	peak



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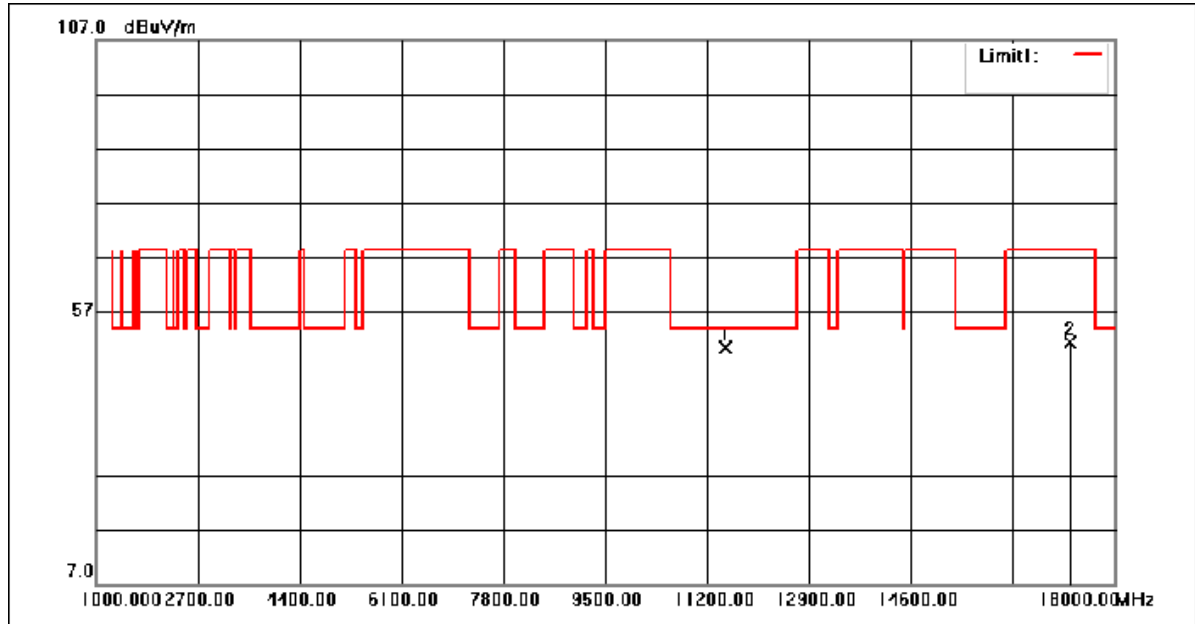
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.21	0.99	50.20	54.00	-3.80	peak
2	17265.000	42.69	9.03	51.72	68.30	-16.58	peak



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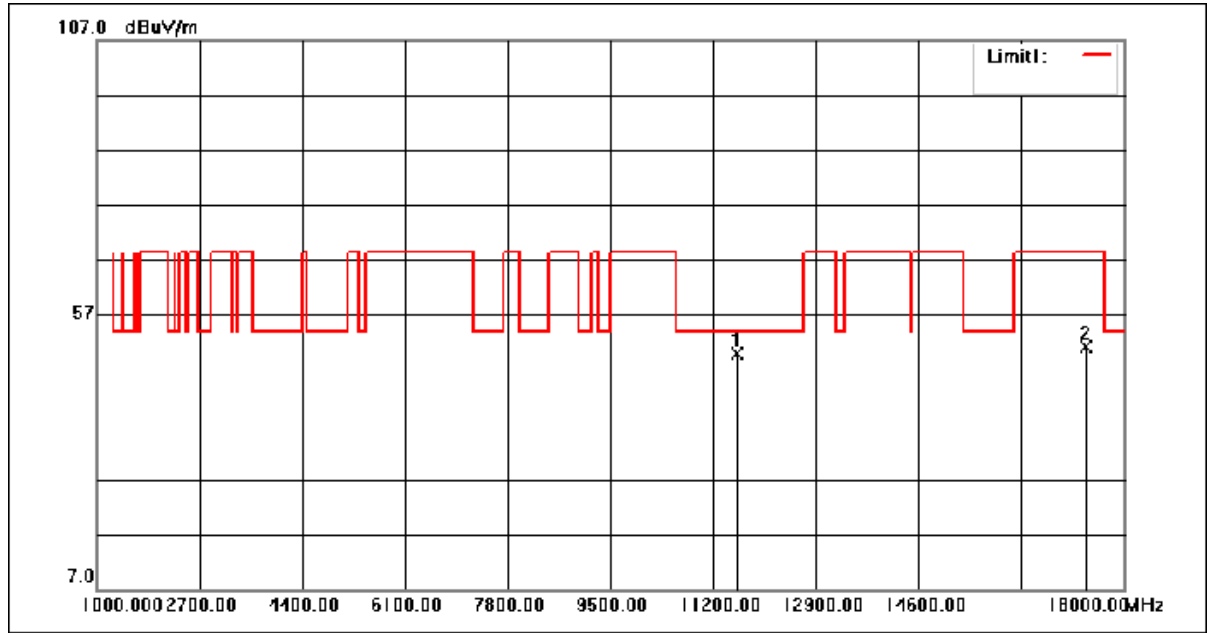
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.30	0.99	50.29	54.00	-3.71	peak
2	17265.000	42.36	9.03	51.39	68.30	-16.91	peak



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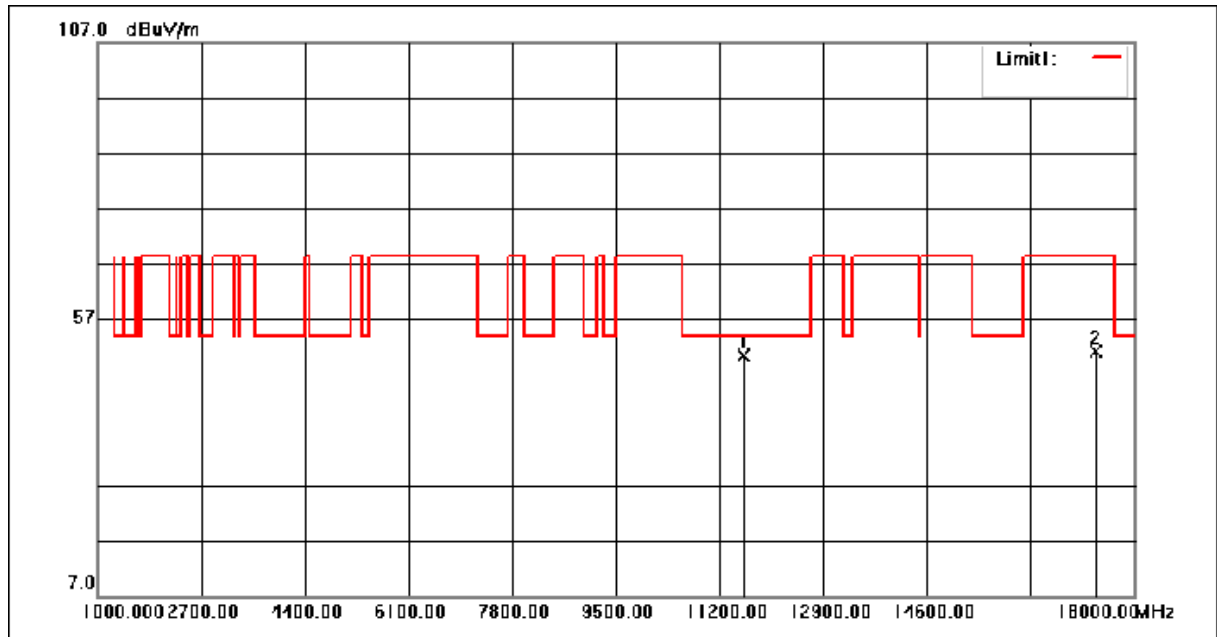
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.70	1.25	49.95	54.00	-4.05	peak
2	17385.000	42.18	8.96	51.14	68.30	-17.16	peak



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Mode:a; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



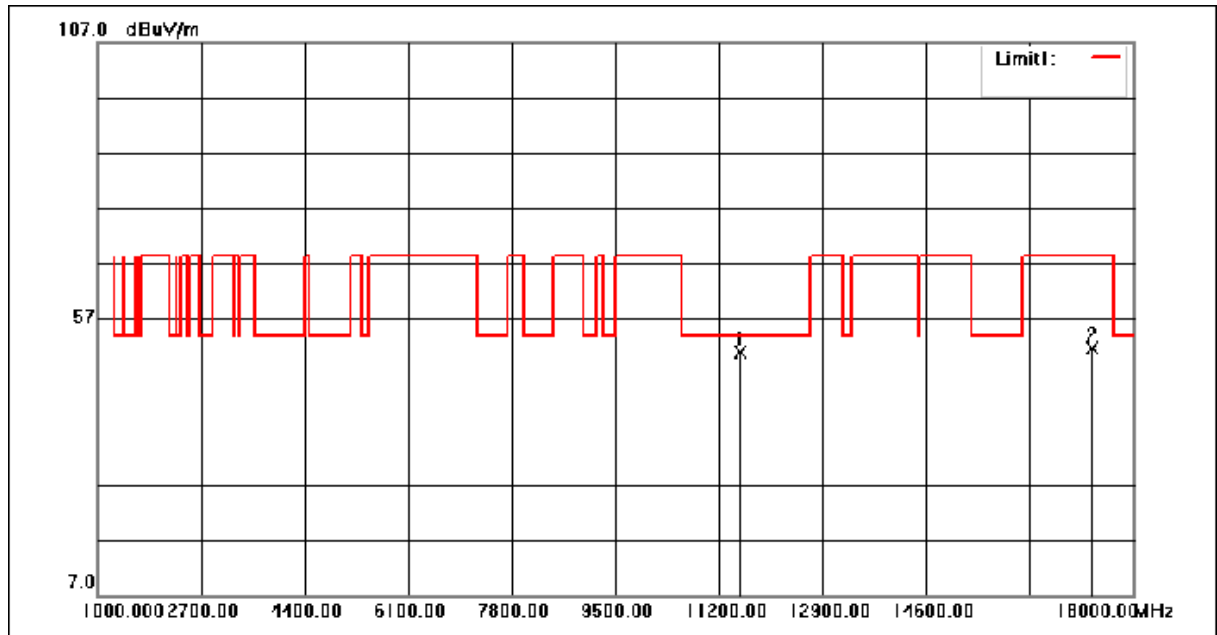
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.11	1.25	50.36	54.00	-3.64	peak
2	17385.000	42.22	8.96	51.18	68.30	-17.12	peak



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Mode:a; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



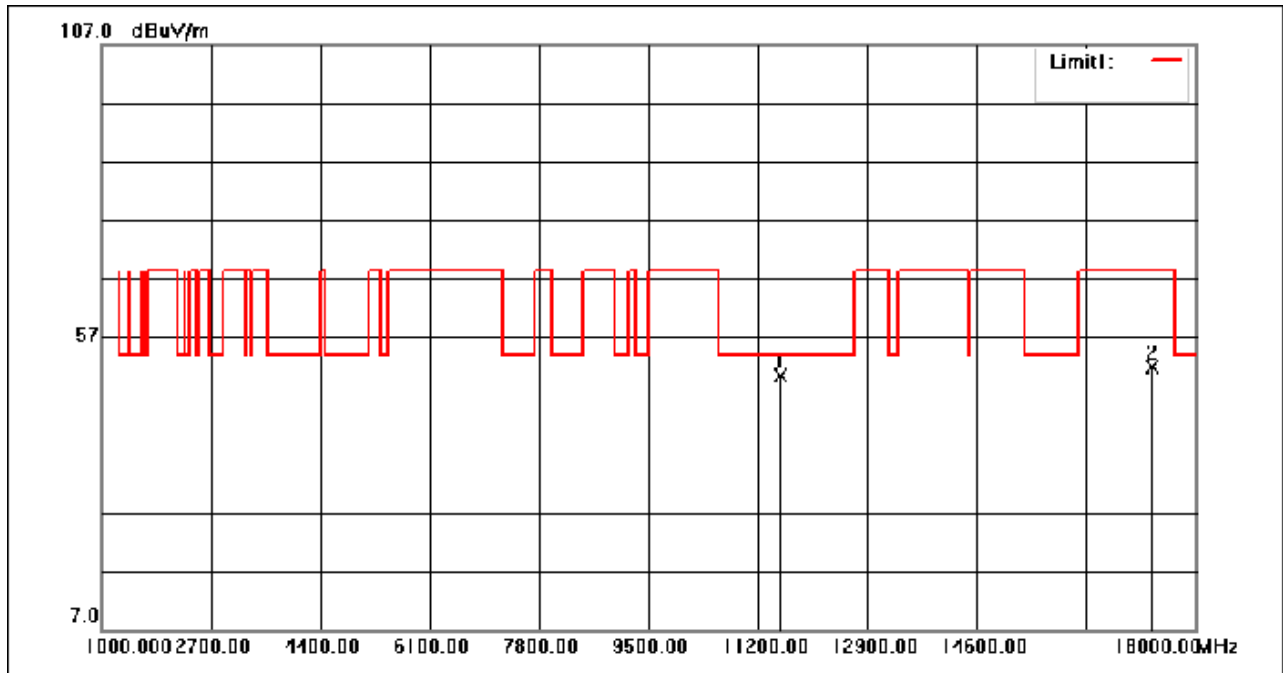
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	49.80	1.12	50.92	54.00	-3.08	peak
2	17325.000	42.72	8.99	51.71	68.30	-16.59	peak



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Mode:a; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11550.000	49.14	1.12	50.26	54.00	-3.74	peak
2	17325.000	42.91	8.99	51.90	68.30	-16.40	peak



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**6.2 Radiated Emissions which fall in the restricted bands**

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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 (86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

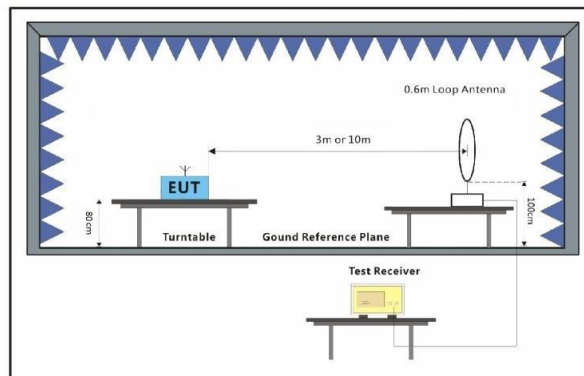
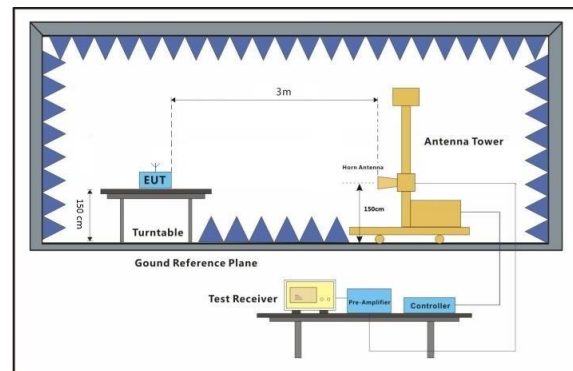
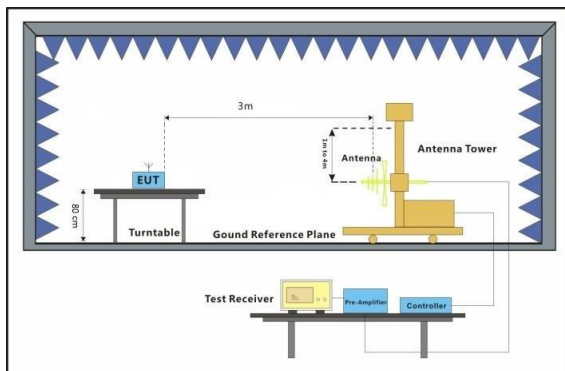
### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode a:TX mode (Band 3)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

### 6.2.2 Test Setup Diagram



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### 6.2.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

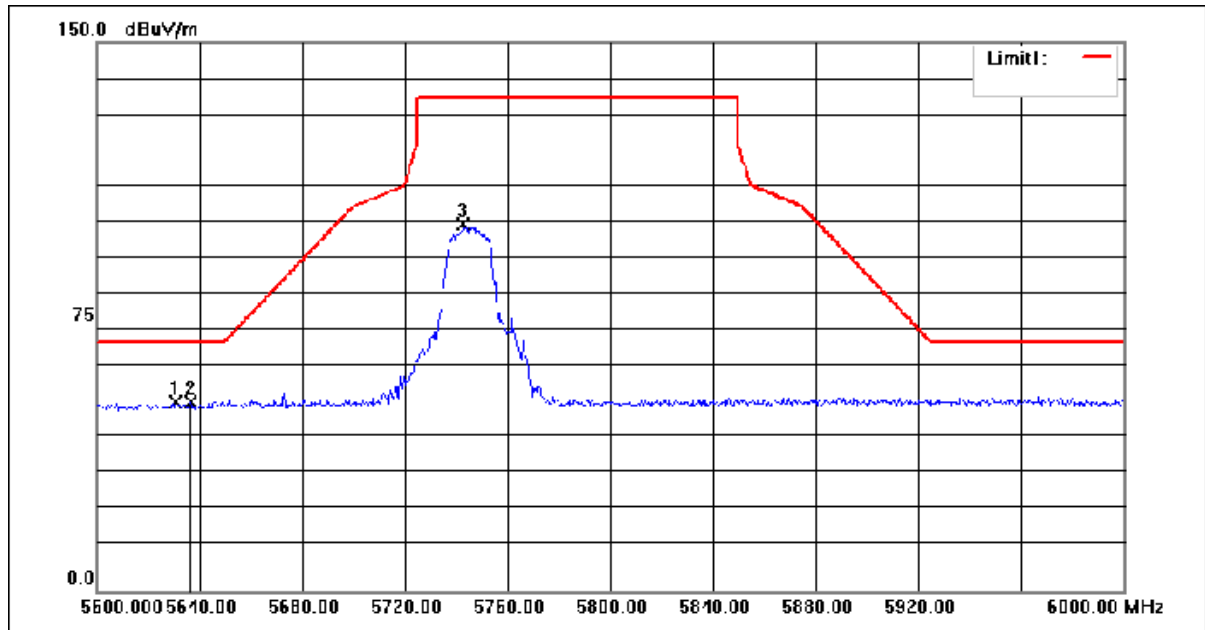
Remark 2: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for a/n modulation and MIMO antenna operation for n modulation produced the worst emissions. So, the emissions produced from other operation are not recorded in report.



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Mode:a; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



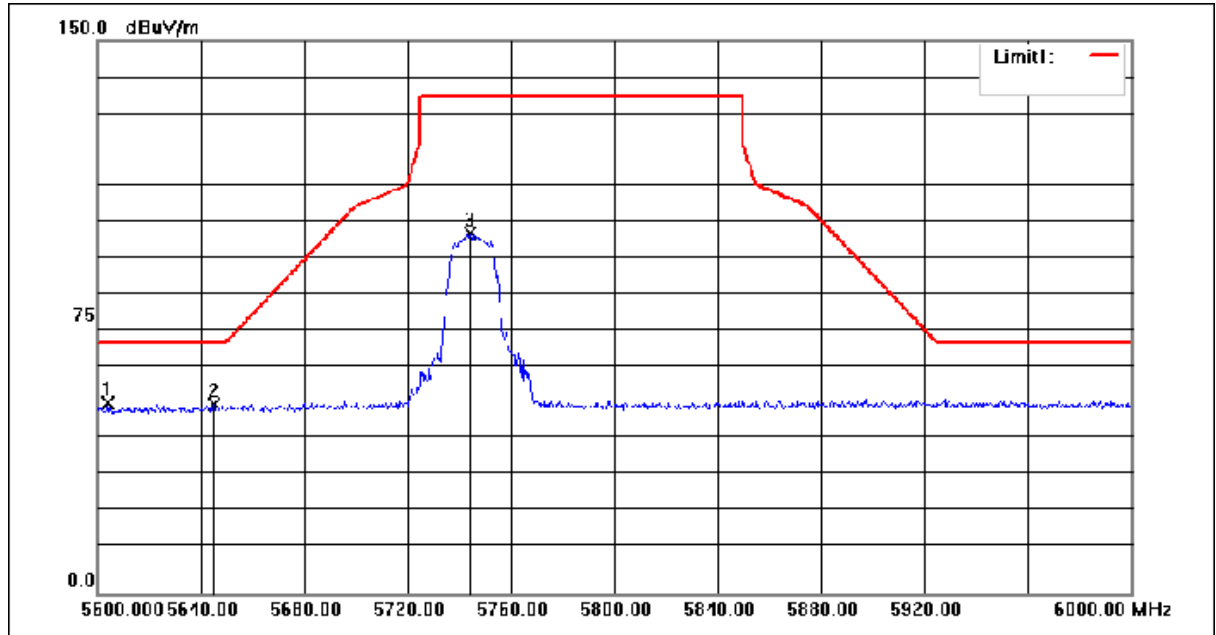
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5630.400	58.60	-6.89	51.71	68.20	-16.49	peak
2	5636.400	58.42	-6.88	51.54	68.20	-16.66	peak
3	5742.800	106.91	-6.61	100.30	135.00	-34.70	peak



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Mode:a; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



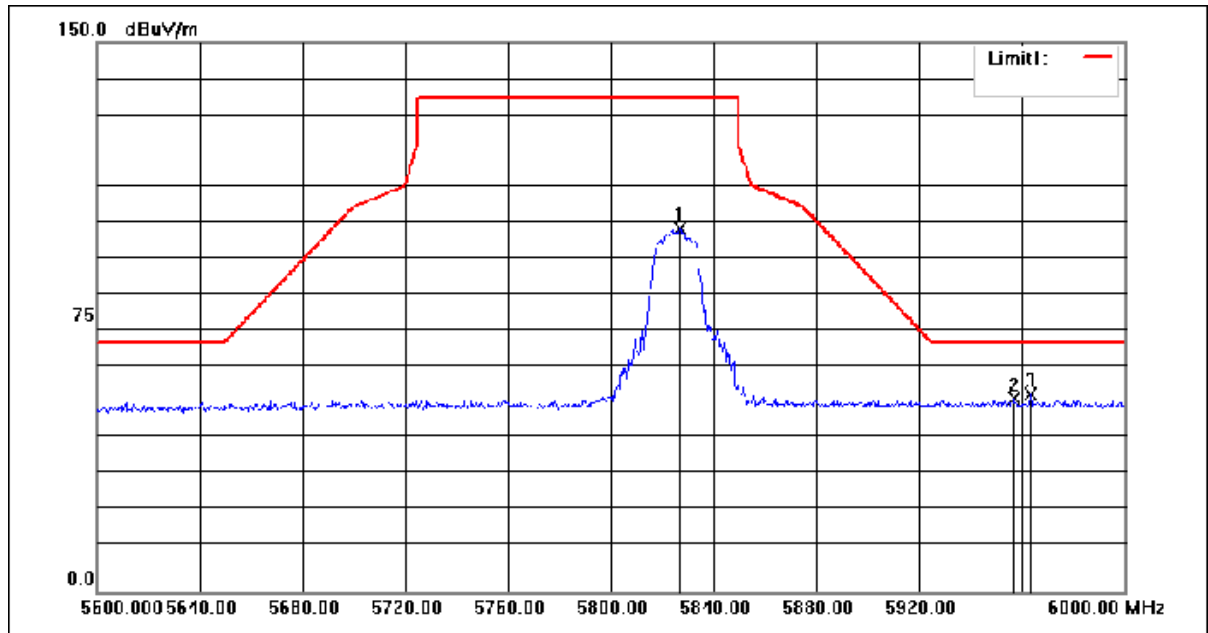
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5604.000	58.35	-6.96	51.39	68.20	-16.81	peak
2	5644.800	58.11	-6.85	51.26	68.20	-16.94	peak
3	5744.000	104.29	-6.60	97.69	135.00	-37.31	peak



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Mode:a; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



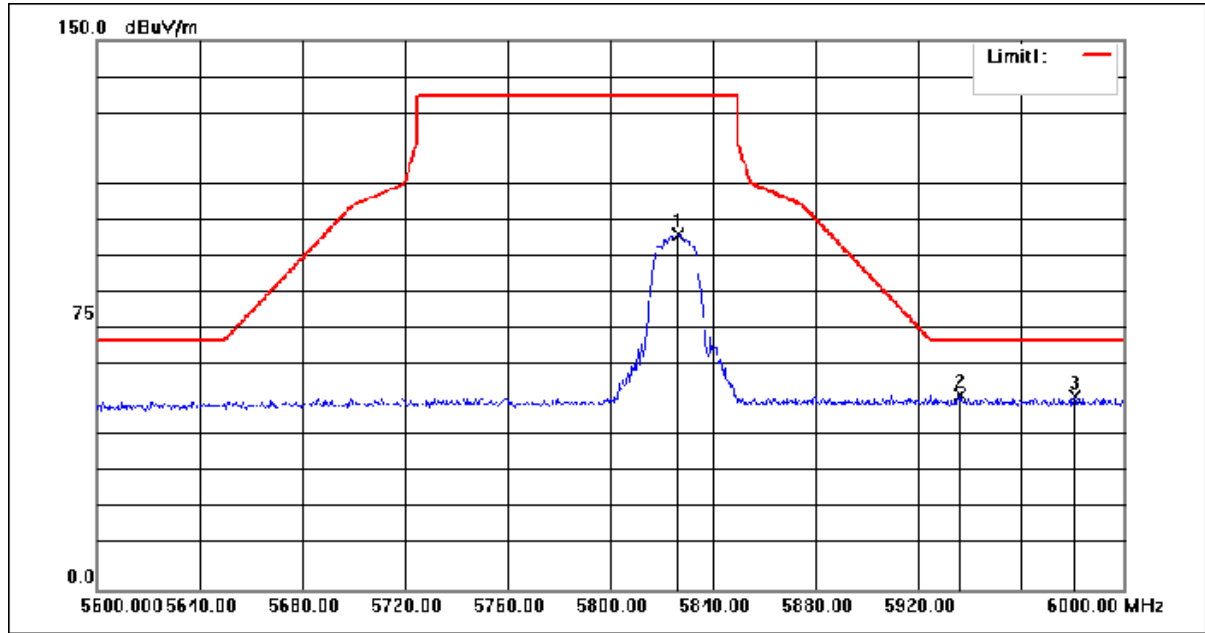
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.800	105.33	-6.31	99.02	135.00	-35.98	peak
2	5956.800	58.34	-5.60	52.74	68.20	-15.46	peak
3	5963.600	59.37	-5.56	53.81	68.20	-14.39	peak



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Mode:a; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



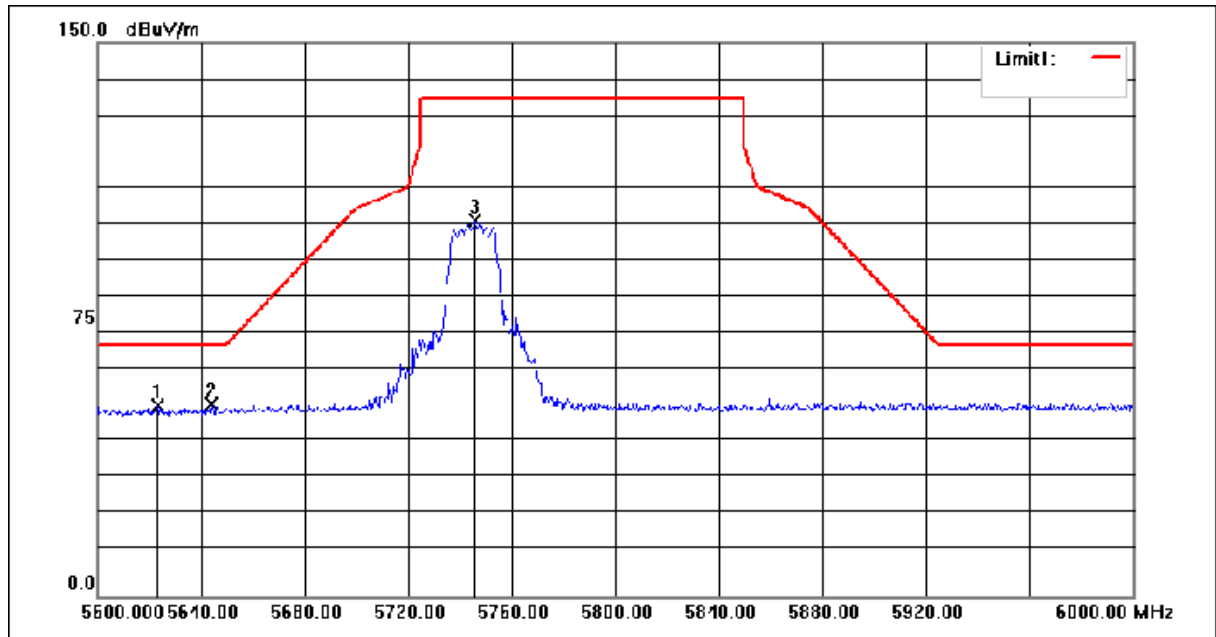
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	103.41	-6.32	97.09	135.00	-37.91	peak
2	5936.000	58.87	-5.71	53.16	68.20	-15.04	peak
3	5981.200	58.15	-5.47	52.68	68.20	-15.52	peak



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5623.200	58.45	-6.92	51.53	68.20	-16.67	peak
2	5644.000	58.87	-6.85	52.02	68.20	-16.18	peak
3	5746.000	108.52	-6.60	101.92	135.00	-33.08	peak

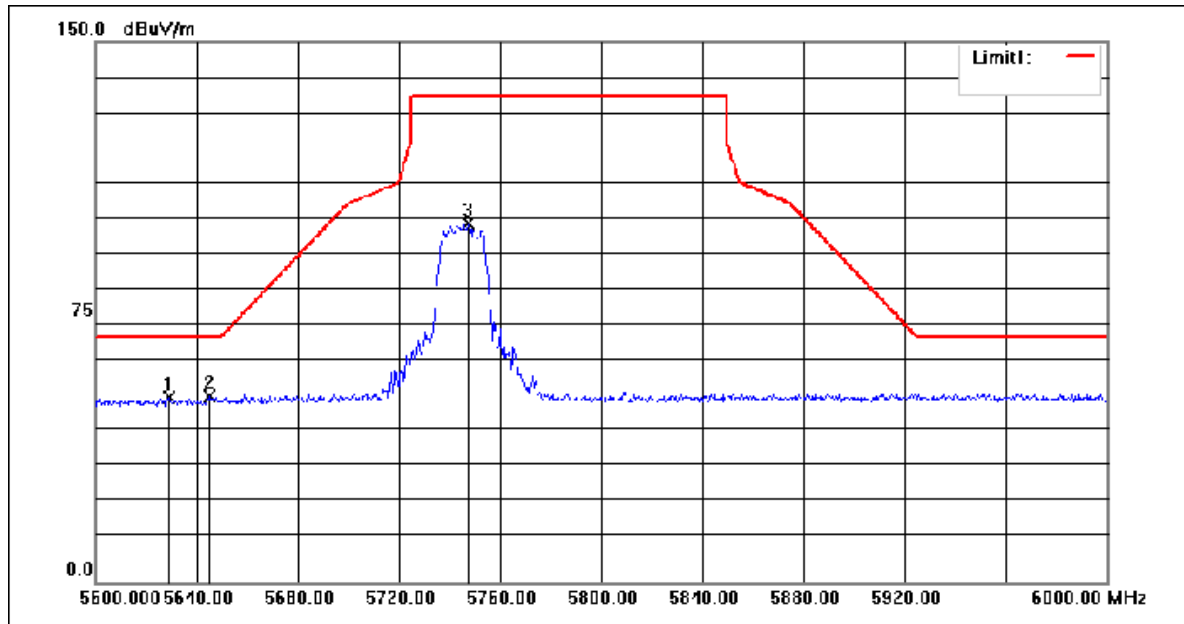


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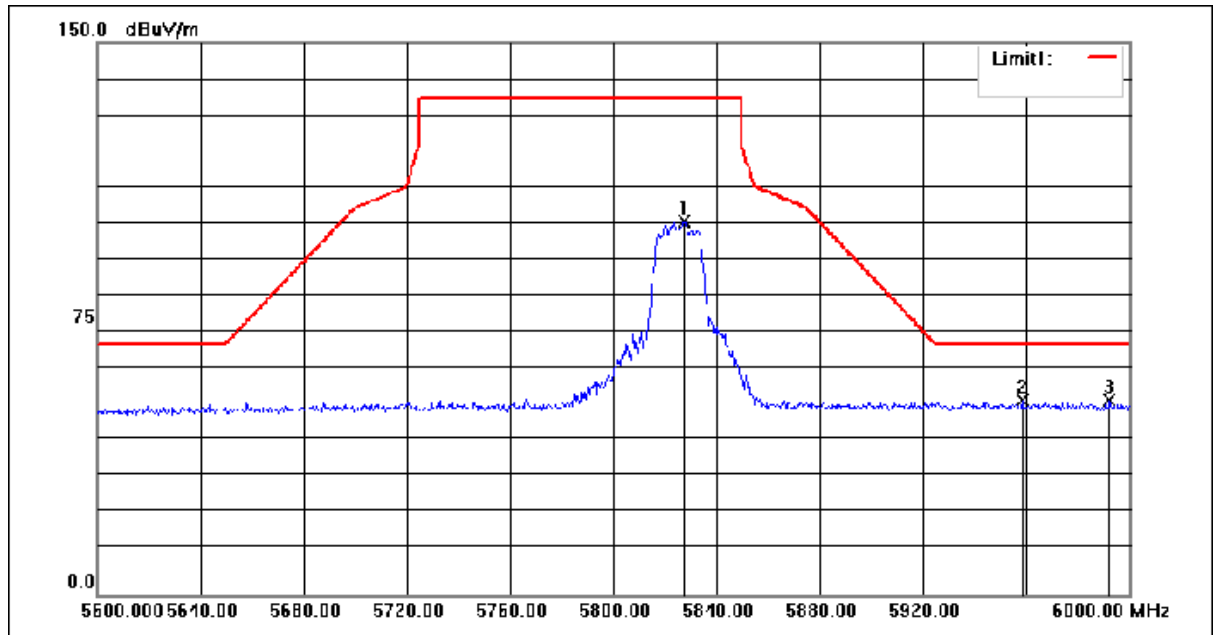
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5628.800	57.93	-6.90	51.03	68.20	-17.17	peak
2	5645.200	58.23	-6.85	51.38	68.20	-16.82	peak
3	5747.200	106.27	-6.60	99.67	135.00	-35.33	peak



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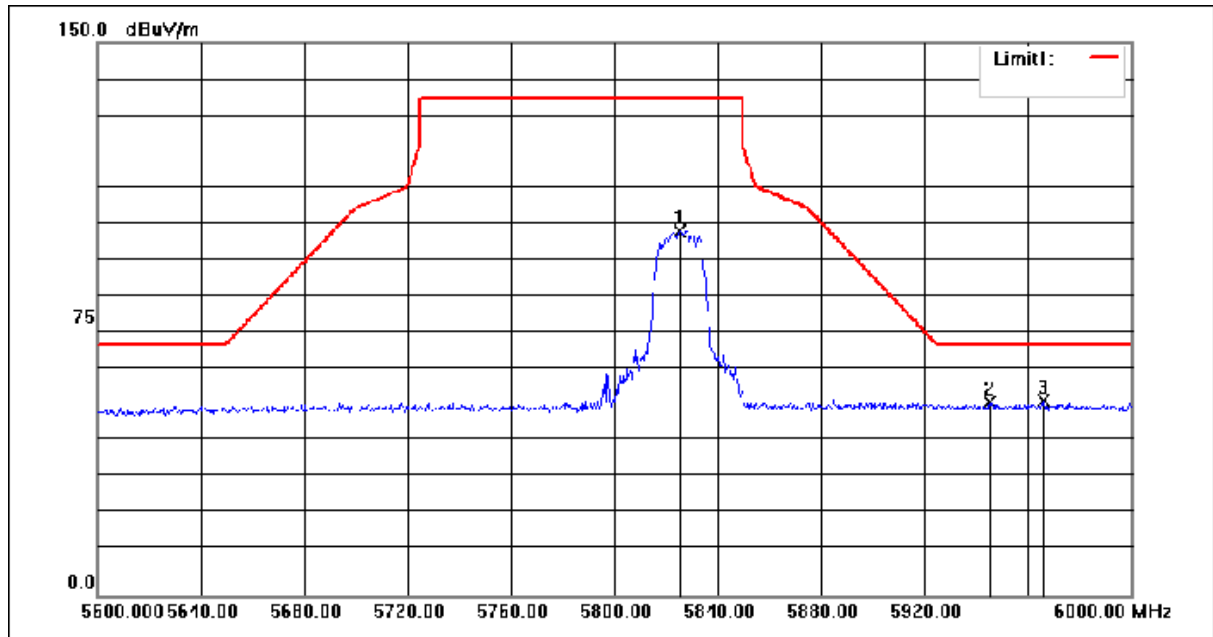
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5827.200	107.69	-6.31	101.38	135.00	-33.62	peak
2	5958.400	58.24	-5.59	52.65	68.20	-15.55	peak
3	5992.400	57.95	-5.41	52.54	68.20	-15.66	peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



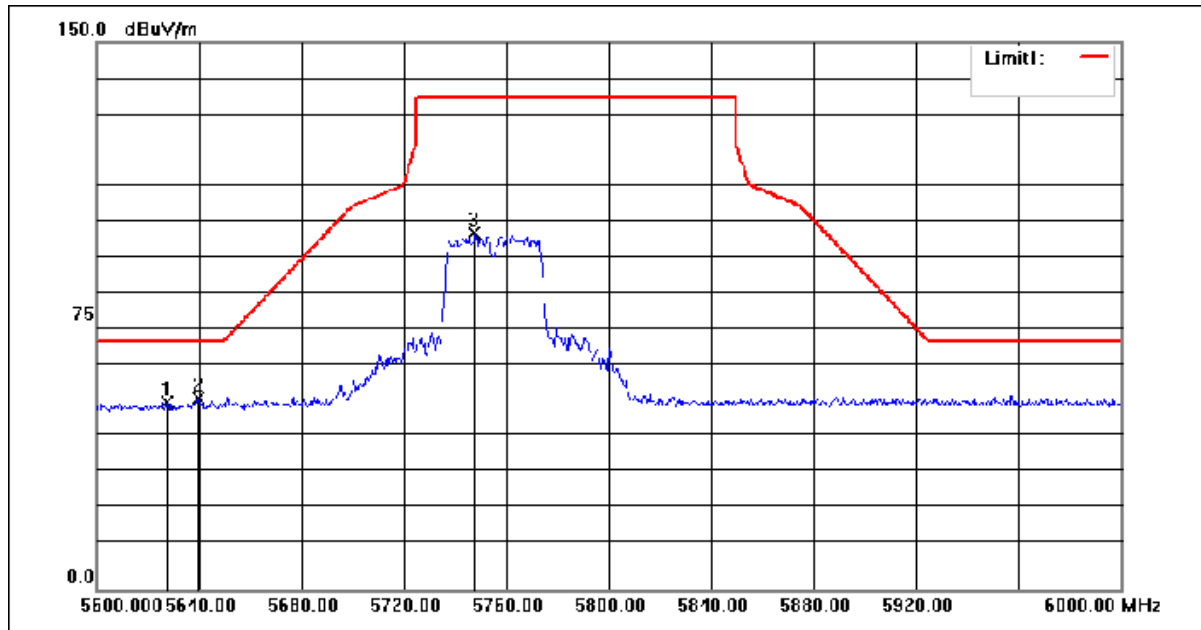
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5825.200	105.11	-6.32	98.79	135.00	-36.21	peak
2	5945.200	58.04	-5.66	52.38	68.20	-15.82	peak
3	5966.000	58.22	-5.55	52.67	68.20	-15.53	peak



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



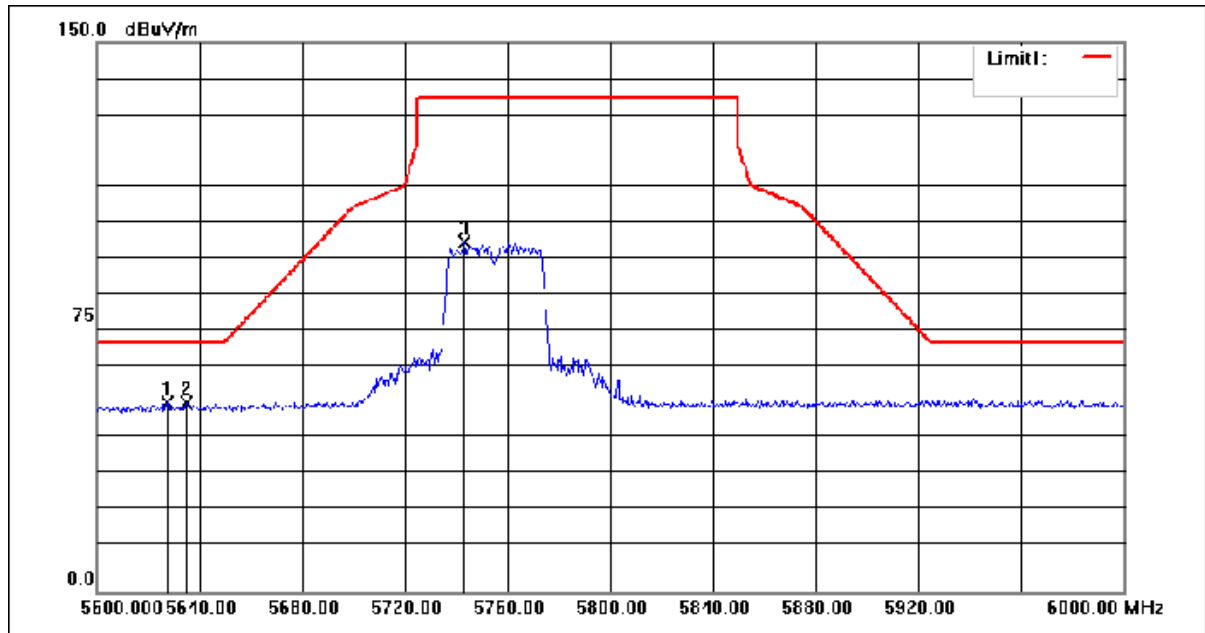
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5627.200	57.99	-6.90	51.09	68.20	-17.11	peak
2	5639.600	59.20	-6.87	52.33	68.20	-15.87	peak
3	5747.600	104.45	-6.60	97.85	135.00	-37.15	peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



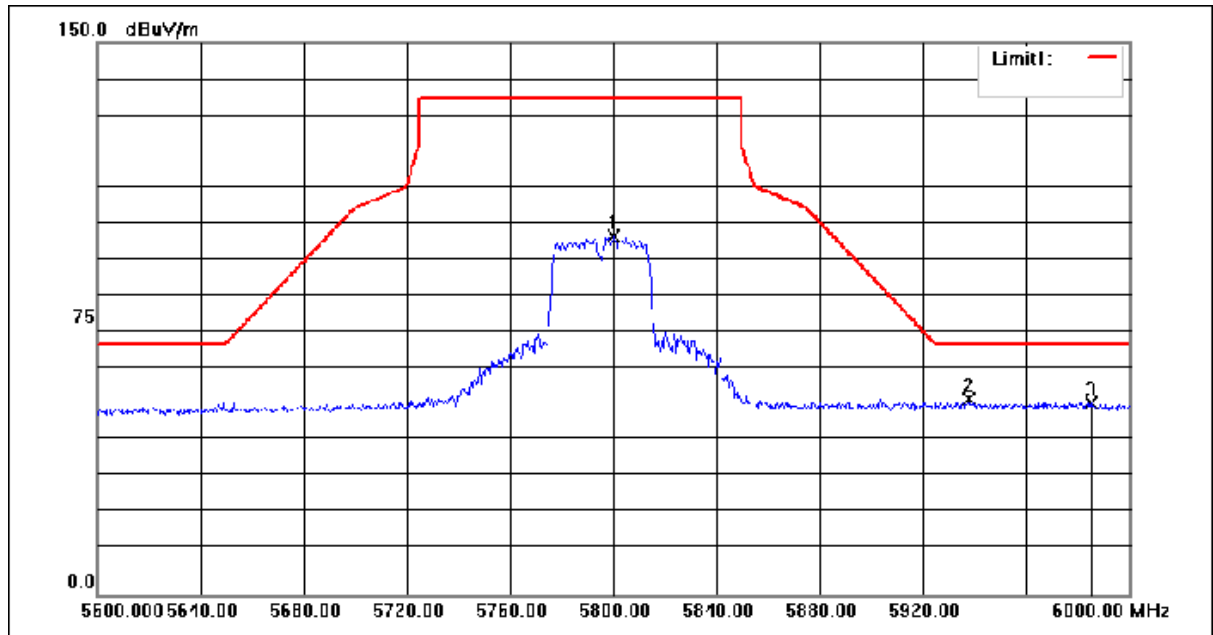
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5627.200	58.65	-6.90	51.75	68.20	-16.45	peak
2	5634.800	58.34	-6.88	51.46	68.20	-16.74	peak
3	5743.200	102.02	-6.61	95.41	135.00	-39.59	peak



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Mode:a; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



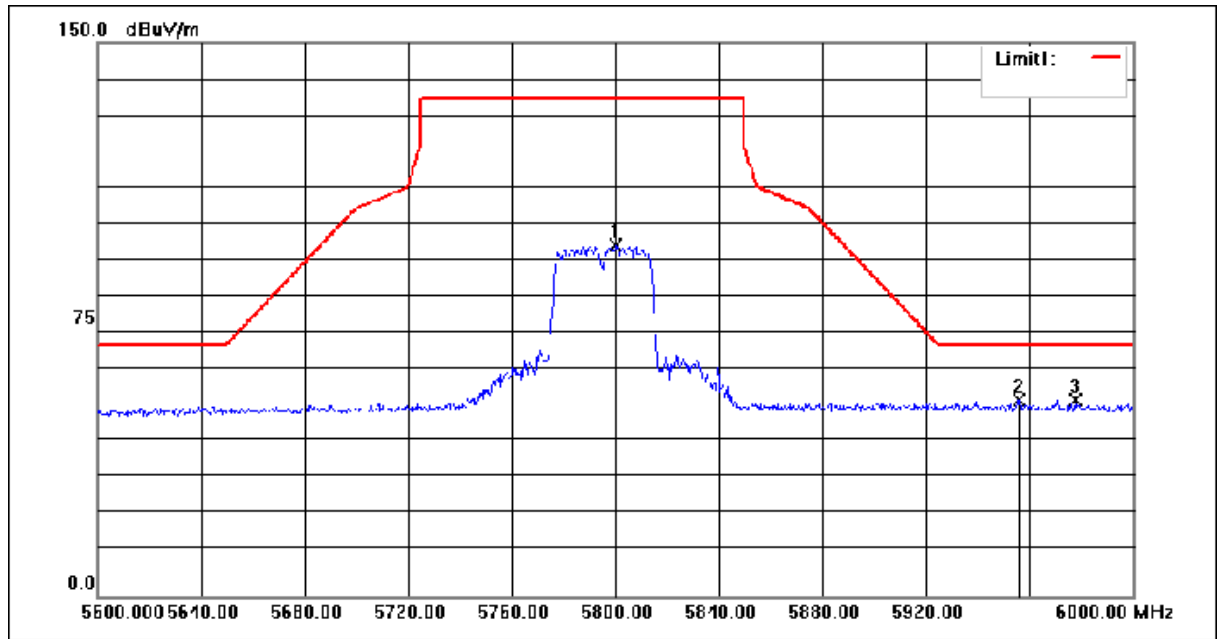
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5800.400	103.61	-6.46	97.15	135.00	-37.85	peak
2	5937.600	58.83	-5.70	53.13	68.20	-15.07	peak
3	5985.200	57.44	-5.44	52.00	68.20	-16.20	peak



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Mode:a; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



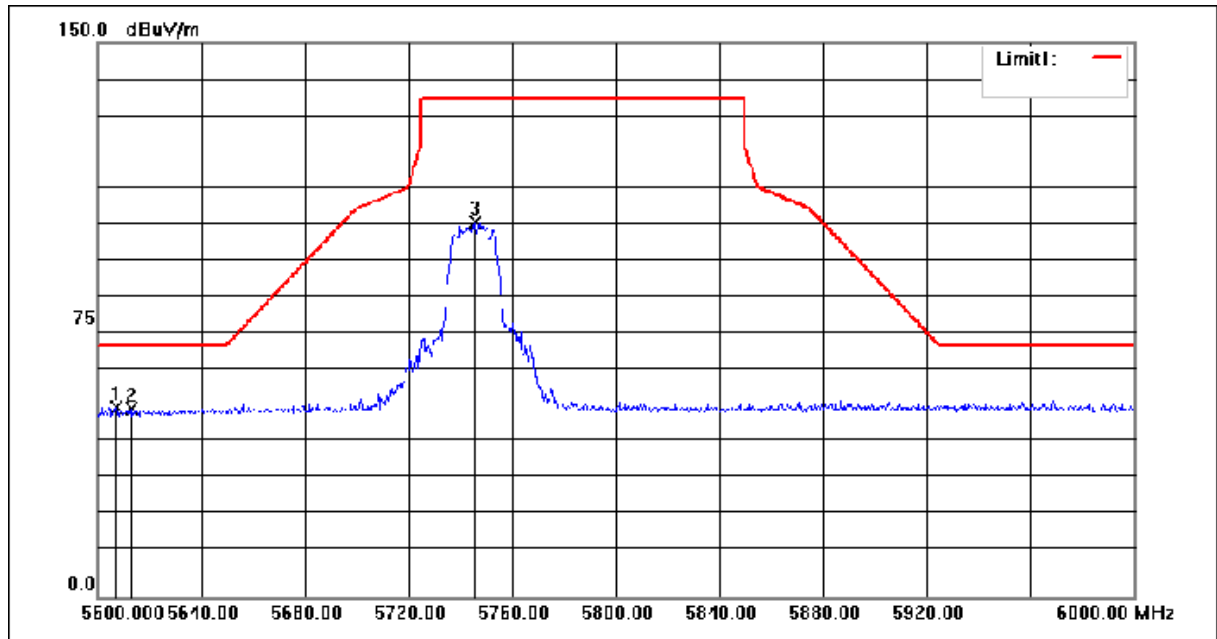
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5800.400	101.51	-6.46	95.05	135.00	-39.95	peak
2	5956.000	58.65	-5.60	53.05	68.20	-15.15	peak
3	5978.000	58.46	-5.48	52.98	68.20	-15.22	peak



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Mode:a; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5607.200	58.22	-6.95	51.27	68.20	-16.93	peak
2	5613.200	57.86	-6.94	50.92	68.20	-17.28	peak
3	5745.600	108.18	-6.60	101.58	135.00	-33.42	peak

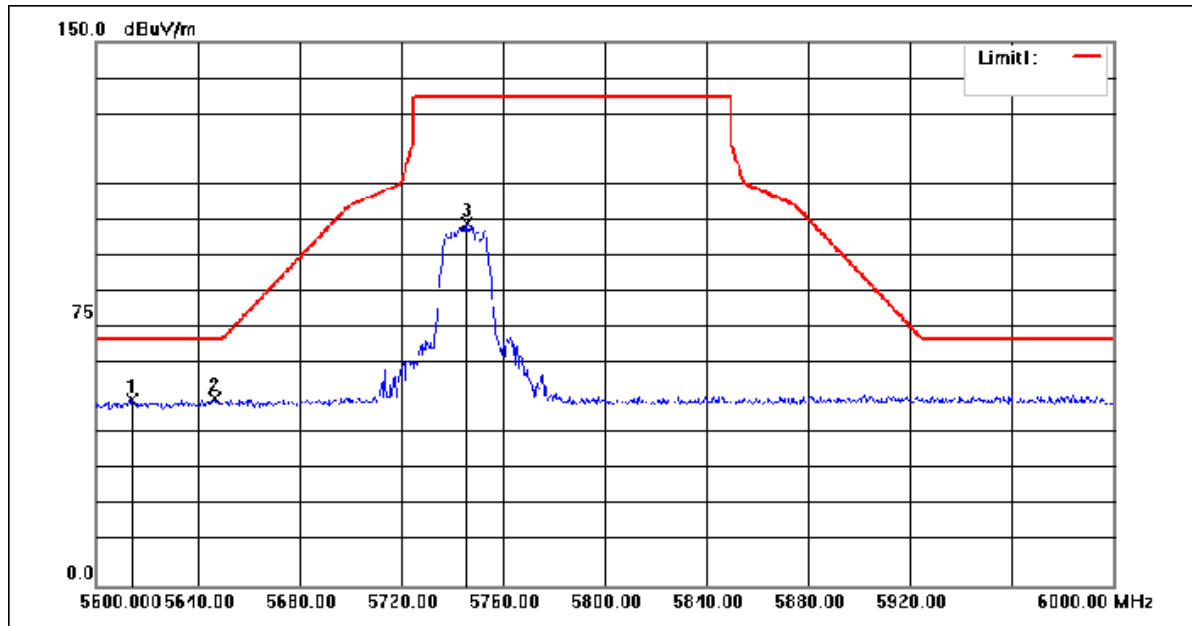


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Mode:a; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



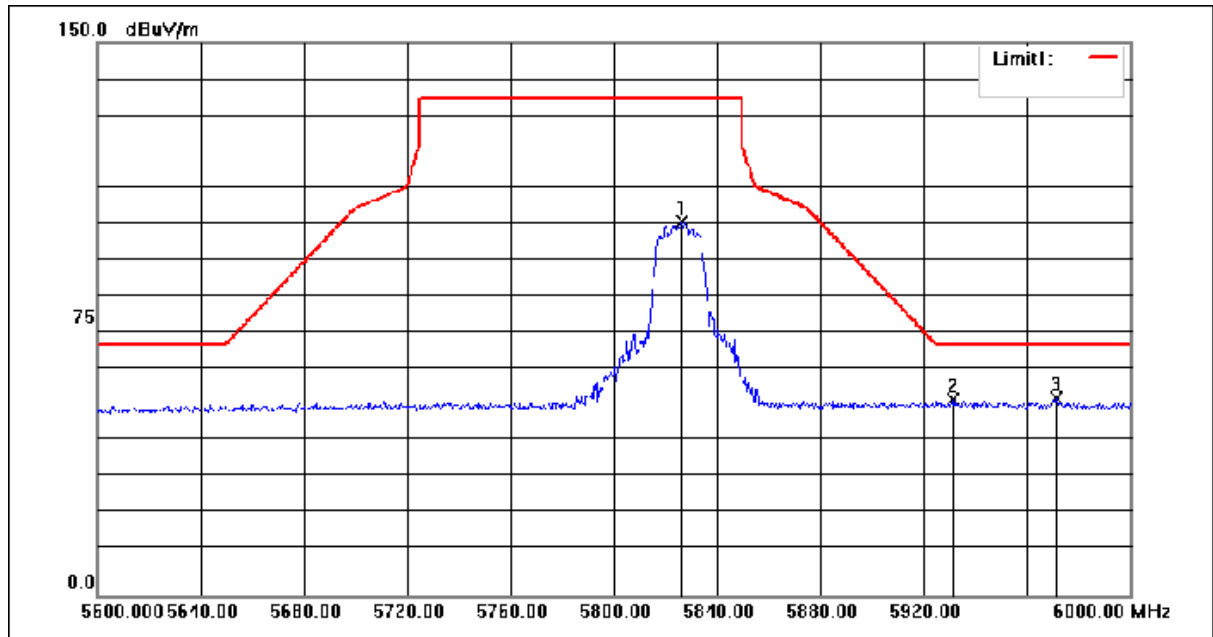
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5614.000	58.09	-6.94	51.15	68.20	-17.05	peak
2	5646.400	58.56	-6.85	51.71	68.20	-16.49	peak
3	5746.000	106.72	-6.60	100.12	135.00	-34.88	peak



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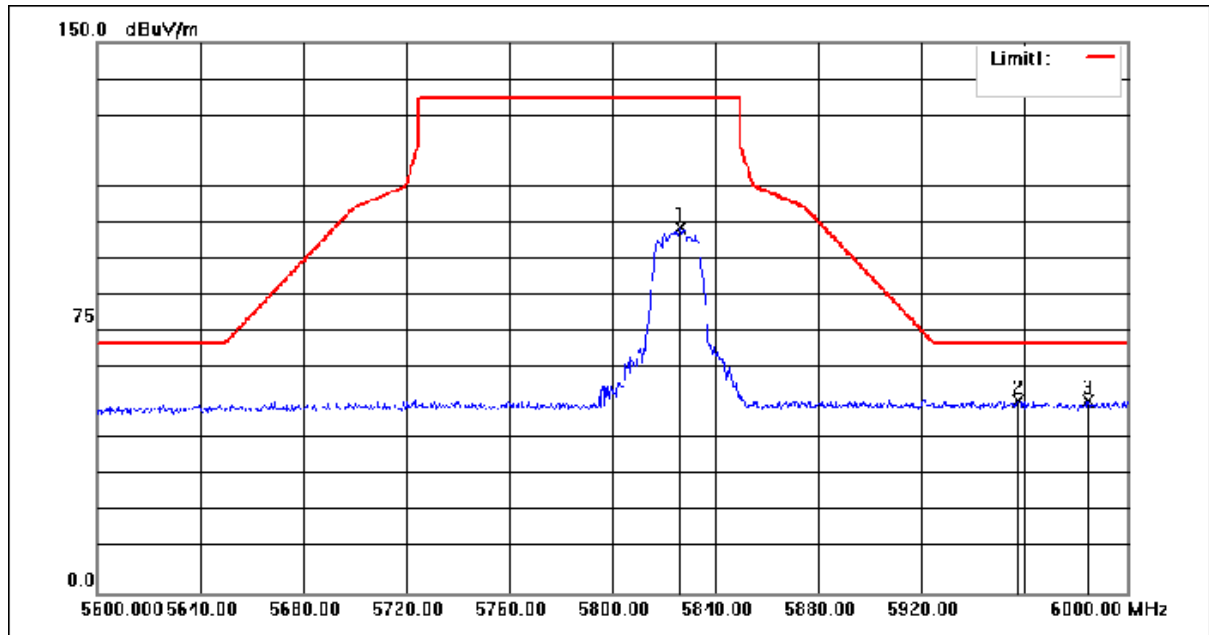
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	107.60	-6.32	101.28	135.00	-33.72	peak
2	5931.600	58.67	-5.73	52.94	68.20	-15.26	peak
3	5971.600	59.10	-5.52	53.58	68.20	-14.62	peak



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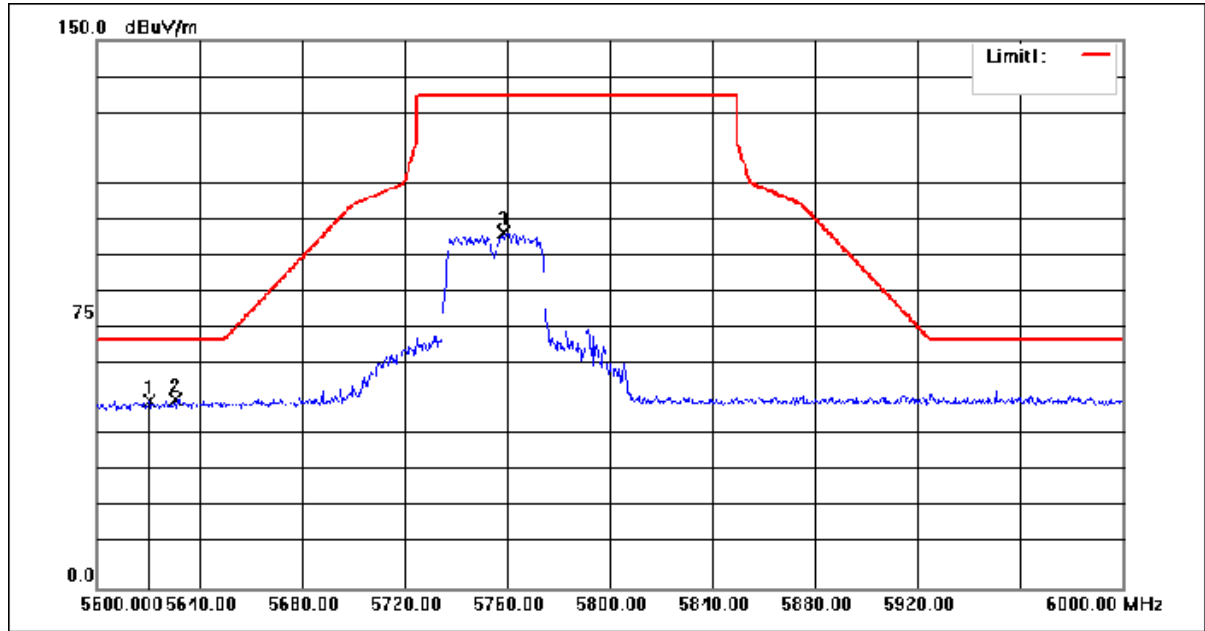
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5826.400	105.77	-6.32	99.45	135.00	-35.55	peak
2	5957.600	57.79	-5.59	52.20	68.20	-16.00	peak
3	5984.800	57.57	-5.44	52.13	68.20	-16.07	peak



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Mode:a; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



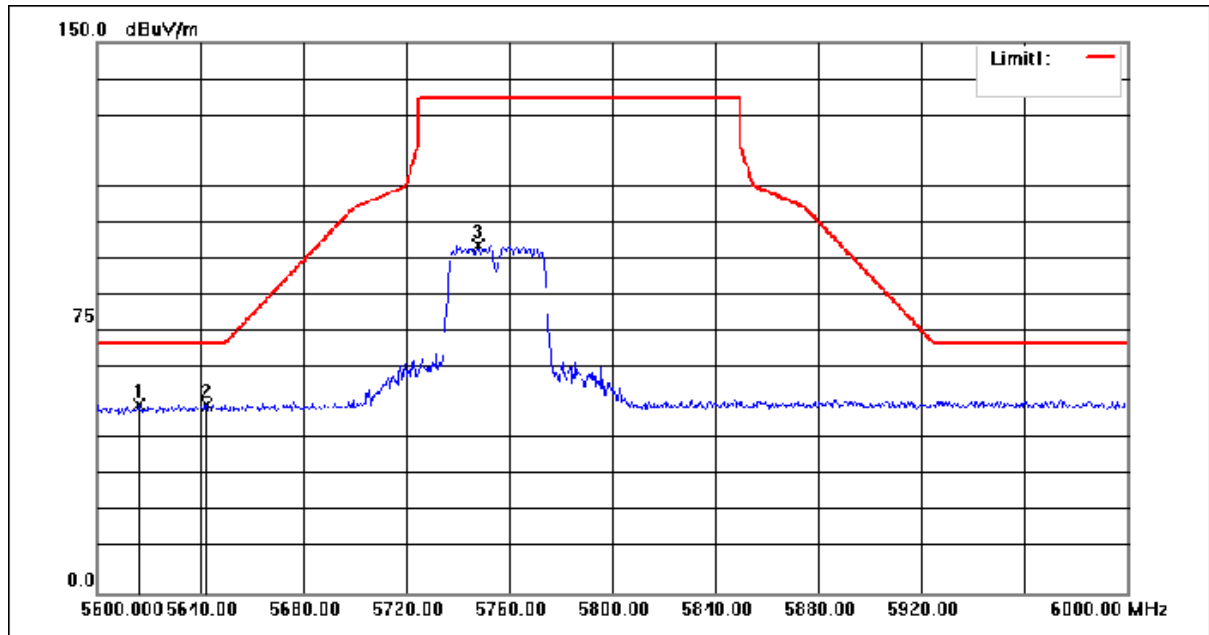
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5620.400	58.17	-6.92	51.25	68.20	-16.95	peak
2	5630.800	58.61	-6.89	51.72	68.20	-16.48	peak
3	5758.400	103.80	-6.56	97.24	135.00	-37.76	peak



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Mode:a; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



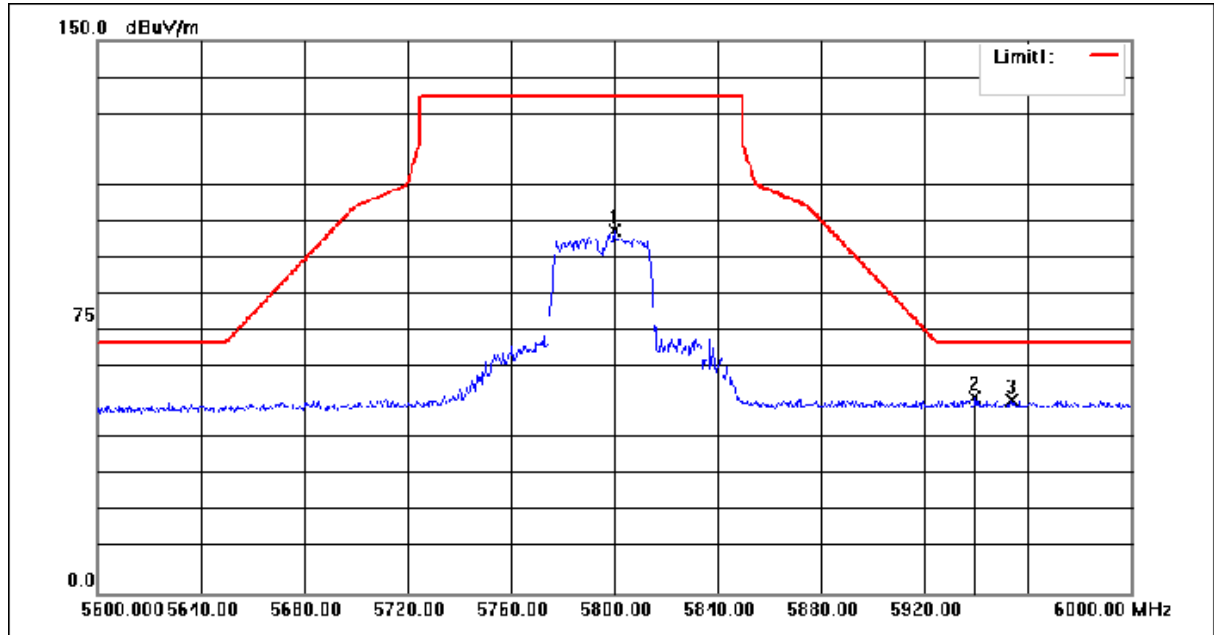
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.000	58.22	-6.93	51.29	68.20	-16.91	peak
2	5642.400	58.03	-6.87	51.16	68.20	-17.04	peak
3	5748.000	101.46	-6.59	94.87	135.00	-40.13	peak



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Mode:a; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



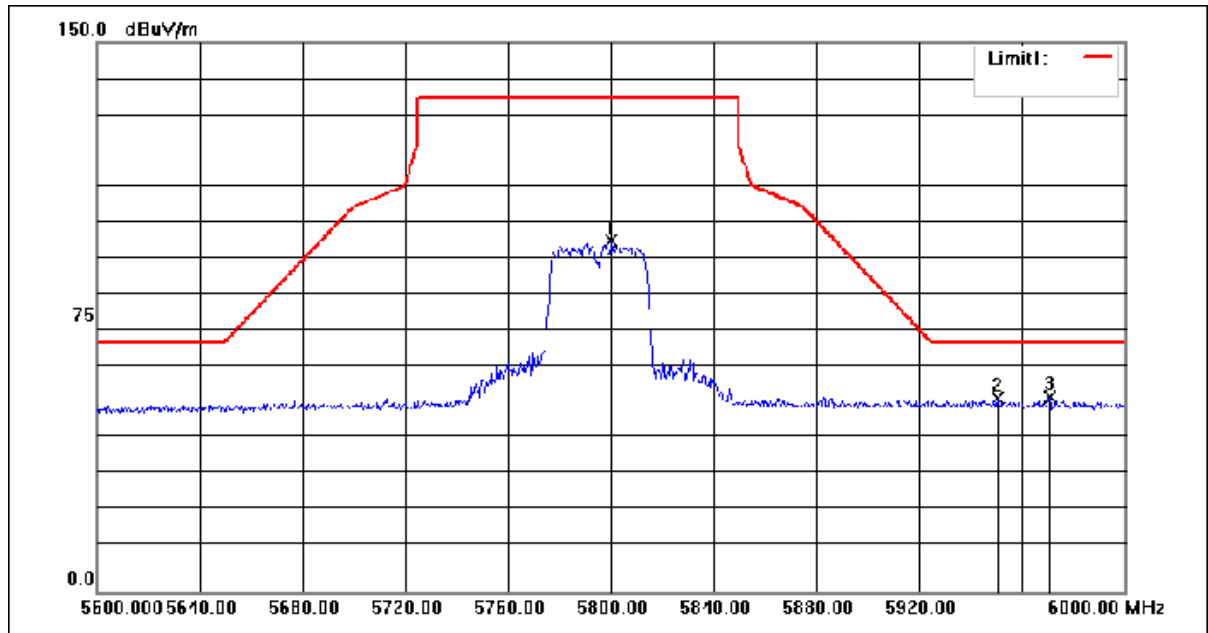
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5800.000	104.90	-6.46	98.44	135.00	-36.56	peak
2	5939.600	58.93	-5.69	53.24	68.20	-14.96	peak
3	5953.600	57.79	-5.61	52.18	68.20	-16.02	peak



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Mode:a; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



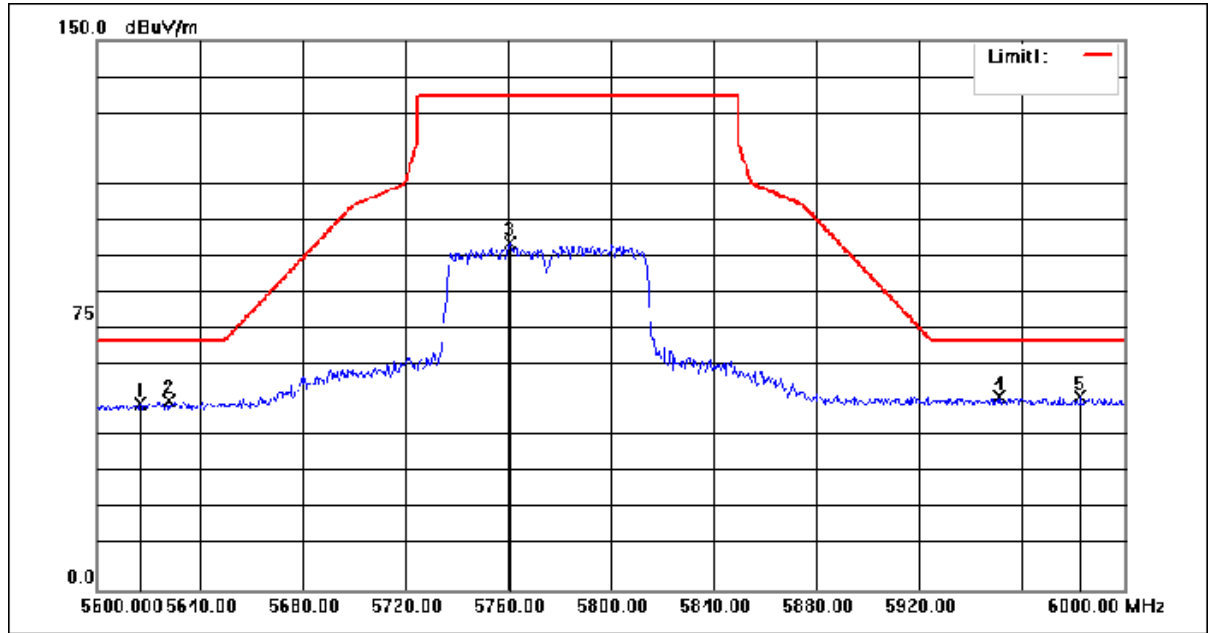
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5800.400	102.09	-6.46	95.63	135.00	-39.37	peak
2	5950.400	58.20	-5.63	52.57	68.20	-15.63	peak
3	5970.800	58.74	-5.52	53.22	68.20	-14.98	peak



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Mode:a; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5616.800	57.85	-6.92	50.93	68.20	-17.27	peak
2	5628.000	58.37	-6.90	51.47	68.20	-16.73	peak
3	5760.800	101.32	-6.56	94.76	135.00	-40.24	peak
4	5951.200	58.30	-5.63	52.67	68.20	-15.53	peak
5	5982.800	58.12	-5.46	52.66	68.20	-15.54	peak

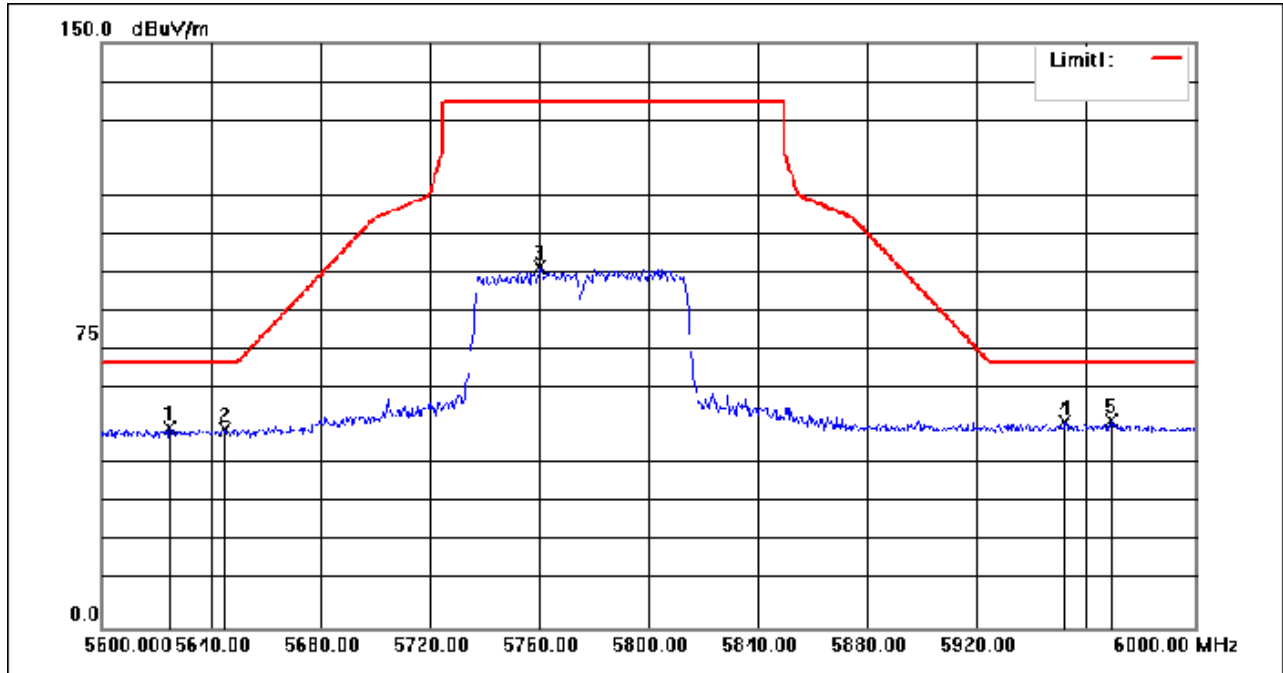


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Mode:a; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBUV)	Correction factor(dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	5624.800	58.08	-6.90	51.18	68.20	-17.02	peak
2	5645.200	57.74	-6.85	50.89	68.20	-17.31	peak
3	5760.400	98.90	-6.56	92.34	135.00	-42.66	peak
4	5952.400	58.26	-5.62	52.64	68.20	-15.56	peak
5	5969.200	58.53	-5.53	53.00	68.20	-15.20	peak



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## 7 Test Setup Photographs

Refer to the < Test Setup photos >.

## 8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -



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